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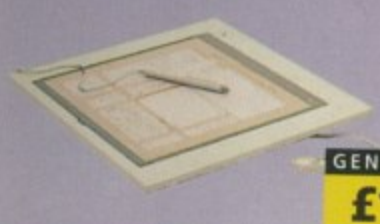
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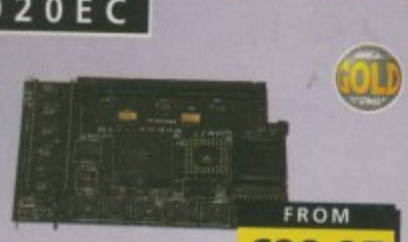
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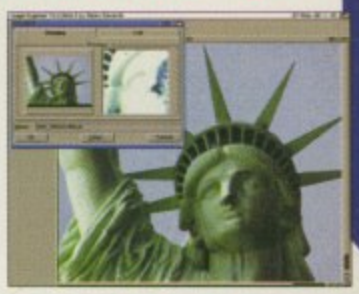
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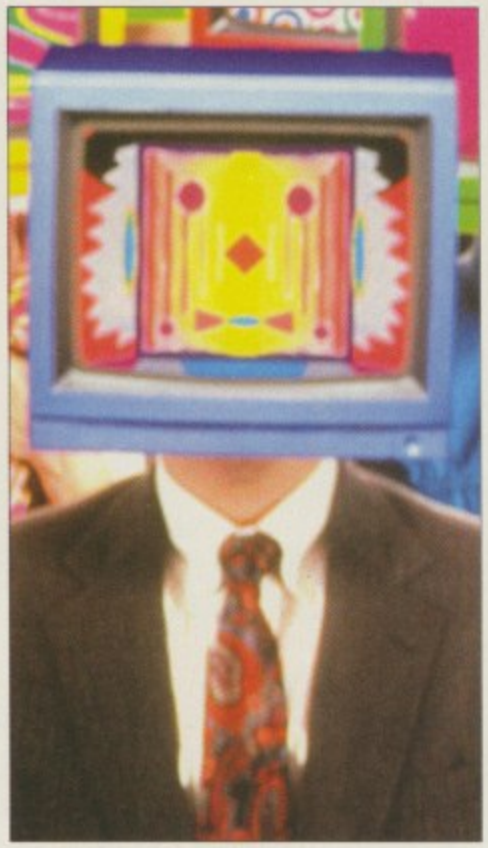
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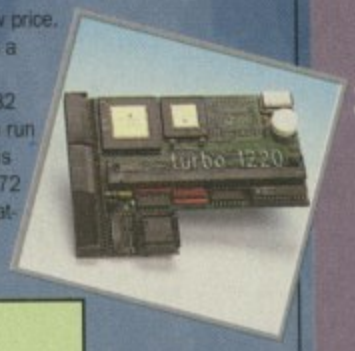


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Who's a games machine now?

amiga comment

Hah! The Amiga's just a games machine...", how often have you heard it said? But let's reappraise the situation now, halfway through 1996. Who plays games on their Amigas anymore? And how many of you look on in envy at Rebel Assault II, Duke Nukem, Quake, Lost Eden, etc., etc., etc.... The truth is out there, the fact of the matter is that the PC is the games machine now, not the Amiga.

It's not the Amiga's fault, it's just that games publishers perceive that the PC games market is so much larger than the Amiga market that they are no longer bothering producing Amiga titles. There is also the perception that most Amiga users have the bare minimum in hardware, you know the standard A500(+) or A1200, with no hard drive, and certainly no added RAM.

The truth of the matter, as we have discovered from our survey, is that over 90 per cent of Amiga owners actually have a hard drive, and the average amount of fast RAM is extremely high at just over 7.5Mb! Nearly half our readers have CD-ROM drives, also negating the idea that games that are too large for floppies are too large for the Amiga. There are certain instances, like LucasArts' Day of the Tentacle and Full Throttle, that would lose nothing in conversion to the Amiga, yet our market is ignored. Okay, most of our readers only have a 68020 or 030, but that is still fast enough for the simpler Doom-type games, as has been proved amply by the likes of Breathless and all those other dungeon bashers.

The really stupid thing is that with the graphic adventure games like Full Throttle or Sam & Max Hit The Road, there is very little work that needs doing. The core game engine might need porting over (although SCUMM, the LucasArts' game engine, existed initially on the Amiga anyway), but after that it's just the graphics and sounds that need changing. The AGA Amigas make a large portion of total Amiga ownership and they are all capable of displaying 256 colour screens. As for the sound side of things, well the Amiga has always had reasonable sound, better even than some PC sound cards (even today), and there's certainly nothing in a game like Full Throttle that Paula, the sound chip, can't handle.

Then you can point to the Gallup software charts which still consistently have Amiga games like Worms and all the varieties of Sensible Soccer in the top ten and you just have to ask yourself why these companies aren't putting out Amiga versions of their games. Perhaps they aren't aware of the slightly more pokey status of the average Amiga these days and just assume that all CD sales would be on the CD32, which, let's face it, is not the ideal Amiga. I guess, once again, it's up to us. If you're on the Internet, why not point your browser at www.lucasarts.com and mail them your request at lucasarts 3@aol.com. If you don't have access to a modem, why not send them a postcard asking for the software you want to see. LucasArts' address is: P.O. Box 9367, Canoga Park, CA 91309-0367, USA.

> The **Amiga** was much maligned in the past as a **games** machine, but the tables are turning now



Full throttle could be ported to the Amiga easily, but...

Ben Vost
Editor

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Tel: 01625 878888 , Fax: 01625 850652

EMail contacts:
Editorial edit@acomp.demon.co.uk
Advertising ads@acomp.demon.co.uk

CHAIRMAN	Richard Hease
MANAGING DIRECTOR	Ian Bloomfield

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For six years *Amiga Computing* has been the leading magazine for Amiga enthusiasts. As a key member of the IDG communications group, *Amiga Computing* promises to inform, educate and entertain its readers each month with the most dedicated coverage of the Amiga available.

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news

By Tina Hackett

ON THE GRAPEVINE

Following current rumours of redundancies made at Amiga Technologies in Germany, *Amiga Computing* talked to company spokesman Gilles Bourdin about the latest events. Bourdin remarked that restructuring of the company had been necessary but he couldn't say exactly how many had been made redundant. He did comment that it was close to the rumoured figure of 10 to 13.

Bourdin went on to say: "The fact that VIScorp is going to take over the company makes development redundant in Germany because they have engineers in America, many former Commodore engineers. In Germany we will be doing most of the marketing and sales. We have a big market in Europe so that makes sense, and most of the relevant engineers are in America anyway."

He continued: "It's not been decided exactly how the organisation is going to be. We're having a transition time now which, of course, has made it necessary to shrink the company – make it more reduced to its core. The fact is that the new strategy and organisation can only be made possible at the time when the deal between Escom and VIScorp is concluded."

Amiga Computing asked him whether this meant that development is in the hands of the Americans now. He told us: "Not really, because the development in Germany has been made by external companies so actually much of the development work, both software and hardware, has been made by external people who have been recruited by us to do this. We didn't have here what you'd call a research and development department."

Peter Kittel is still in the same role however, contrary to current rumours. Bourdin finished: "He will be staying until the end of June and then maybe we can find a solution."

JOIN ICPUG

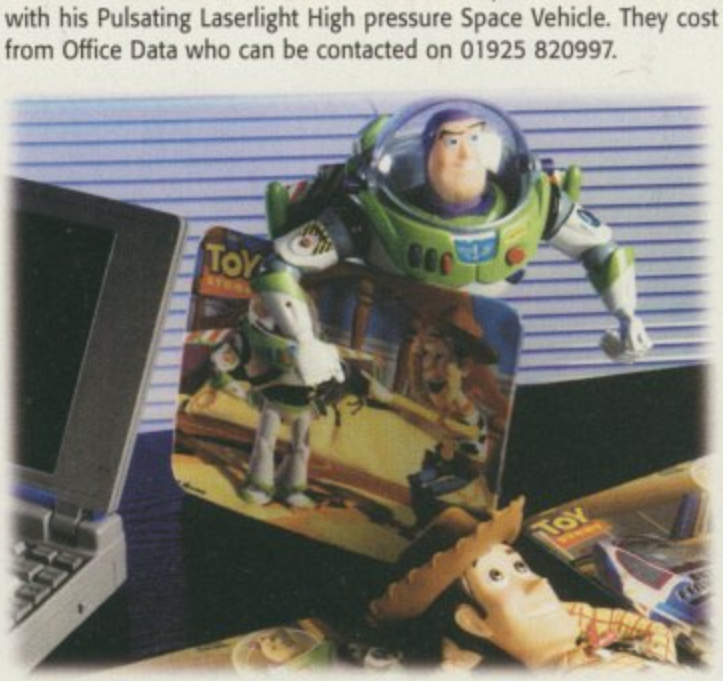
The Independent Computer Products Users Group is offering UK and BFPO members joining for the eight months from 1 May to 31 December 1996 a reduced price subscription of £17 (including 1 share). The rate for Europe (including Eire) and overseas surface mail is £20 and the overseas airmail rate for this offer is £27.50. As a member you will get four issues of the ICPUG Journal, a free PD software library for the Amiga, and all other Commodore computers, plus a free PD library (DOS and Windows) for the PC. You will also be able to use the technical help hot-lines which are available for members only.

ICPUG is a non-profit-making organisation which has been around for 18 years. It was previously known as the Independent Commodore Products Users Group and now supports most home computers, in particular PCs, Amiga, and Apple Mac plus the older machines made by the former Commodore company. Details from the Membership Secretary, Tim Arnot, 17 Colne Drive, Oakfields, Didcot, Oxon OX11 7RZ.

icpug

TO INFINITY AND BEYOND

Fans of the brilliant Disney animation, Toy Story, will be pleased to hear of the new mouse mat from Office Data. Choose from the two styles available, either Woody and Buzz or Buzz with his Pulsating Laserlight High pressure Space Vehicle. They cost £5.99 and are available from Office Data who can be contacted on 01925 820997.



Brighten up your computer accessories with this Toy Story mouse mat

LAZARUS ACQUIRES

Ontario-based company, Lazarus Engineering Corporation, has announced that it has bought all the Intellectual Property from Wonder Computers. This means that Lazarus now controls DesignWorks, PowerManager and QuickWrite, plus hardware such as the KB-10 IBM-Amiga keyboard protocol converter. Steve Cockwell, President and CEO of Lazarus commented: "Our strength is in the people around us. From our talented engineers, technical writers, graphic artists and support staff to the customers around the world that have shown their support through e-mails, faxes and letters that we have received in the past few months. It takes an entire community to make a company like this possible and we are proud to say that we are part of the one called Amiga."

MORE FROM BLITTERSOFT

Blittersoft has an assortment of new products this month. First off is its DblScan 4000 which allows the use of regular VGA/SVGA/Multisync monitors with your Amiga 4000. It upgrades the Amiga 4000's PAL/NTSC screenmodes in a way that any regular VGA/SVGA/Multisync monitor is able to show them. Priced at just £149.95 (inc VAT), it will only fit into a computer with a video slot. A standard VGA connector is used for the RGB port and if a graphics card for a pass-through option for Amiga output is being used, you can connect this to the DblScan 4000 output.

Blittersoft has also announced this month the release of the improved version of its Graphics Card, Picasso II. Called the Picasso II+, it has a newly designed bus-interface which offers improved performance in all resolutions and the on-board monitor switch eliminates the need for a second monitor. You can switch easily between the standard Amiga resolutions and the new Picasso Resolutions.

New features include a Vertical Blank Interrupt for smooth double buffered animation's, faster Zorro-II Bus speed and Pablo Video Encoder brightness control. The Picasso II+ uses the Cirrus Logic CL 5428 graphics chip which has an integrated 32-bit blitter and allows a maximum data transfer of 30Mb. The new version also means that with 2Mb of graphics memory you can display up to 800 x 600 with 16.8 million colours. You can also display the Workbench in 8-bit with 1152 x 900 at 65Hz (maximum non-interlaced resolution), or up to 1600 x 1200 with 60Hz interlace. Picasso II + also supports DPMS Power Save monitors.

Blittersoft also has another offer this month. If you're thinking about upgrading to a more powerful Amiga, then it is offering a trade-in scheme whereby it will offer either £200 for an A1200 or £100 for an A500 against the purchase of a new A4000T. All it requires is that the machines are complete and working. The A4000T is priced at £1999.95 and is the full 040 version and comes complete with a 1Gb drive, 2Mb Chip, 4Mb Fast RAM plus full software packages

The company is also offering its A4000 TE for £1299.95. The machine is based on the full height Tower and has the basic motherboard, 2Mb Chip and 4Mb fast RAM but you also can decide on the processor, Hard Drive, RAM, CD-ROM (4x to 10x), Flicker Fixer and Graphics Card. This method allows the user to buy a full A4000TE system with CyberStorm 060 and 1Gb IDE Hard drive for £2120 inc VAT. Contact Blittersoft on 01908 261466.

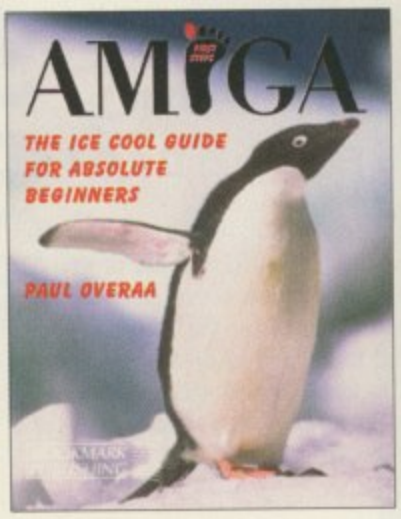
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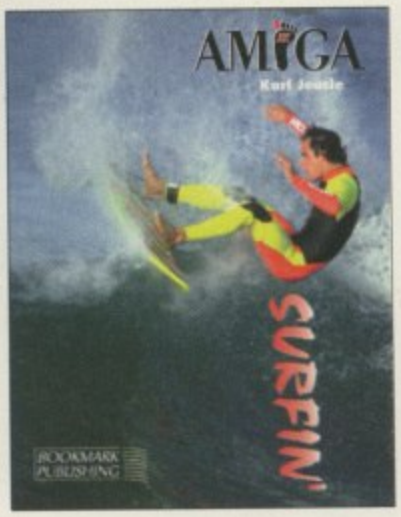
A new Amiga multimedia CD-ROM has been launched to turn you all into budding boffins. The Epic Interactive Encyclopaedia contains tonnes of information with a variety of subjects from Aachen to Zurich, accompanied by film clips, sound samples and images. The encyclopaedia has been produced in the UK and also allows you to add new subjects from the Internet or from floppy disk. A hotlist editor allows you to create lists of particular subjects.

EASY SURFING

If you're wondering what all this Internet hype is about and want to get yourself connected but don't know how, then help is at hand. Bookmark Publishing has a new book called First Steps Amiga Surfin' which will help you transform even the most basic Amiga into an Internet surfer's workstation. It shows you what hardware and software to buy, how to configure them and how to Install and use the best Internet applications. It is written by Karl Jeacle and the concept and design is by Jeff Walker.

Also from Bookmark Publishing is First Steps Amiga. Written by Paul Overaa, it guides absolute beginners through all the basics of the Amiga using clear terms without all the jargon. It shows how to operate the Amiga and how to use the Workbench programs. Both books are priced at £6.99 and you can contact Bookmark on 01525 713671 for more info.





If you want to learn the basics of the Amiga or find out how to surf then check out the latest books from Bookmark Publishing

news snippets

TENUOUS LINK

Virtuality Group, developers of Virtual Reality systems, has licensed the technology of its Head Mounted Displays to Takara and Media Robotics. Takara has set the release date for September 1996 for the Japanese market and has priced the system at only Yen 38,800 which is roughly £230. Dennis Ohryn, Chairman of Virtuality, commented: "The agreement with Takara and Media Robotics is a major step forward. In addition to endorsing our low-cost consumer VR technologies, it significantly strengthens our position in the important Japanese market and provides us with our first exposure to the consumer." Incidentally, Virtuality once used Amiga 3000s.

BUY-OUT FOR LEISURESOFT?

Following the news that distributor, Leisuresoft, has gone into administration, it has now emerged that around 50 firms have expressed an interest in buying the company. The administrators are known to have put Leisuresoft up for sale and will sell if it will benefit the company. One company rumoured to be interested is Anglo Corporation, the same people who saved SDL last year when it also fell into financial troubles.

I SAW A MOUSE

Is your mouse passing on into the twilight of its years? Fear not because Golden Image has an attractive offer to take your old mouse off your hands and exchange it for a brand new one. Even if yours is completely done for they will offer you their Megamouse-Plus for £9.95 (including Post and Packing) instead of the usual price of £15.95. The mouse features an eight foot cable and three active buttons. However, the offer is only available for orders placed in June and July 1996. Phone the enquiry line for more details on 0181-900 9291 (Mon-Fri, 9am-6pm).



Swap your old mouse for new

SHOW OF SUPPORT

The World of Amiga Show which took place at the Hammersmith Novotel last month was hailed as a huge success, attracting a crowd well over the numbers that had been expected.

According to those trading, their turnover during the two days was around £500,000 and on the first day a record number turned up in just three-quarters of an hour, meaning people could only get in when others left.

Following this success, a Christmas show will now be considered. For more details about the World of Amiga show and the exhibitors who were there, see our full report later on in this issue.



GOING SPARE

Hawkes Technology Limited has been appointed by Amiga Technologies as spare parts distributor for the UK. HTL is stocking the full range of parts for the Amiga and its strategy is to work through Dealers and encourage end users to make contact with their local independent retailer. It wants Dealers to register with the company so that it can refer leads for parts sales to them.

Managing Director Terry Maguire has a long connection with the Amiga, going back to his time at Commodore UK as Head of Customer Services. John Smith, UK General Sales Manager for Amiga Technologies commented: "We are very pleased to introduce this new support arrangement particularly as it is structured to provide the independents with the opportunity of maintaining contact with the user community."

DRIVE IN AN INSTANT



Eyetech's drive can be fitted in less than three minutes

Eyetech has a new package which is designed to make fitting a hard drive quick and easy. Their InstantDrive 1.1/1.3Gb AV hard drive/installation package for the Amiga 600 and 1200 needs no modifications to the case or shielding and requires no drilling of holes to mount the drive. The kit also comes with anti-static protection for the installer and a 36-page booklet of pictorial instructions.

The InstantDrive package with 1.084Mb AV hard drive is £219.95 inc VAT whilst the package with a 1.283Mb AV hard drive is £249.95. Both come with Workbench 3, utilities, MMe pre-installed, cables, anti-static kit and insulation. Eyetech reckons it has fitted the drive to an A1200 in less than three minutes and regarding warranty implications, it says that as the InstantDrive package does not involve any modifications to the Amiga it will not result in any unexpired warranty being void if fitted according to the supplied instructions.

news from the net

READ ALL ABOUT IT

The greatest of all Amiga mags, Amiga Computing, is online and jam-packed with all the latest news, views and reviews. We now have an on-line chat area too where you can talk live to the infamous Vost, Maddock, Mohr and myself. Or, if we're not there, chat amongst yourselves.

We'll also be bringing you the latest news updates to keep you informed of the very latest in the Amiga world. Go to http://www.idg.co.uk/amigacomp/ to get the lowdown. Commenting on the site, Editor Ben Vost said: "It's great – I wrote it."

I LIKE DRIVING IN MY CAR

With the rush of people all trying to get their driving test through before the new written exam comes in this July, there is now no need to panic if you do have to take the dreaded new test. The Driving School BSM has come up with a Web site designed to build up your confidence before the all-important day. It gives examples of the theory test for you to sit and also tells you if you have passed at the end.

Managing Director for BSM, Richard Glover commented: "Part of the fear of the new theory test is that people don't know what to expect. BSM's new Web site offers users the chance to experience sitting the new exam at the 'Test Centre' and to familiarise themselves with questions similar to the real thing." The site also contains additional information such as driving tips and a forum for users to discuss any motoring issues. It can be found at http://www.bsm.co.uk

NET ADDICTS

New research carried out at a New York university has found that out of 400 Net Surfers, 46 per cent lose sleep because they're too busy on the Web. They confessed to whiling away the small hours surfing and that sometimes they were only getting four hours sleep because of it. Just like Neil.

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£169 modem only

The Enterprise 288 modem can be used on any Amiga computer. To see it really fly, plug the modem into the amazing Surf Squirrel interface for the A1200 and you will see reliable transfer speeds of up to 115,200 bps, saving you time and, of course, money.

Picture shows: Enterprise 288 modem (£169), Jaz drive (£529) and Surf Squirrel (£99.95)

NET&WEB

The Internet... Easy as 123

1 EASY TO INSTALL

Installing Net&Web couldn't be simpler, just enter your login name, password and Internet Service Provider then sit back and let Net&Web do the rest. Within a few minutes you'll be surfing the Web with IBrowse, sending email to your friends and downloading the latest demos.

2 EASY TO CONNECT

Net&Web is compatible with a wide range of Internet Service Providers (ISPs), including Demon Internet, The Net, CIX and many others. Just choose your ISP from our installation list and Net&Web will set up your Amiga to connect at their local point-of-presence.*

3 EASY TO USE

Surfing with Net&Web is so easy; the super-slick IBrowse (available separately) makes cruising the information superhighway as simple as clicking a button. Also included in the Net&Web pack is the powerful MetaTool email program and the DaFTP program for file transfer.

* Note that, for now, we use the slip protocol and AmiTCP because this is far less expensive than the current alternatives. However, all Net&Web owners will be able to upgrade to the brilliant, new TermiteTCP (which supports ppp) at a reduced price.

HOT NEWS! HOT NEWS! HOT NEWS! HOT NEWS!

All Net&Web Packs now include a choice of two great connection deals:

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Operating Modes: Manual/Auto originate, Manual/Auto answer, Manual/Auto dial.

Dialling: Touch-tone or rotary/pulse.

Communication Mode: Full and half duplex transfer modes on two-wire switched telephone channels.

Fax Interface: Class 1 & 2.

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The IBrowse web browser supplied with Net&Web

VIScorp seeks national representatives

USA news

by **Jason Compton**

In an effort to better organise the input from Amiga developers worldwide, VIScorp CEO Bill Buck has proposed that developer input be channelled through a single national representative chosen from the existing developer base of a country. So far, only a French national contact has been announced. His name is Eric Laffont and he is presently handling the entire workload of user and developer input. However, to better distribute responsibility, VIScorp has asked interested parties to come forward and take up the position.

To enquire as to how to contact your national representative, or to offer your services in this respect, contact VIScorp by phone on (001) +312-655-0903 voice or by fax on (001) +312-655-0910 fax



VIScorp – seeking to employ representatives for developer countries

AVAILABLE IMAGES



The Amiga's premier high-end image processing package gets better!

Close on the heels of its acquisition of the Aladdin 4D rendering and animation package, Virginia-based Nova Design has announced that the latest upgrade to the popular ImageFX effects and image processing package will be available immediately. The 2.6 upgrade includes enhanced Video Toaster/Flyer support, a direct driver for the new Fargo FotoFun colour photographic printer, a wire-removal routine for altering wire-suspended images (such as a spaceship model in a video clip), and a set of updated and entirely new effects.

The upgrade is priced at US$35 for all registered ImageFX 2.0 (or higher) users. Users may order directly from Nova Design at 1-800-IMAGE-69 ((001) +804-282-1157), or can be faxed to the company at (001) +804-282-3768. Nova Design also has a Web site for user support and information at http://www.novadesign.com.

SOFTLOGIK GOES LIVE

Following in the much-overdue but quite welcome trend of increasing on-line awareness, PageStream publisher SoftLogik has expanded its on-line presence to include a Web site. The page, at http://www.softlogik.com, offers instant access to upgrade patches for PageStream, as well as ordering information for the entire line of SoftLogik and Digita products, for which it is the exclusive North American distributor. The ordering page includes special 'Powerup' and competitive upgrade options.

SoftLogik continues to offer free on-line and mail technical support. Other support options are explained on its Web site. For more information, check out SoftLogik at the aforementioned Web address or contact its automated mailer at info@softlogik.com. More conventional individuals may phone (001) +314-256-9595 or fax (001) +314-256-7773.



Desktop publishing wizards SoftLogik now grok HTML

NETWORKING IN MIAMI

Choosing a networking package on the Amiga isn't quite as straightforward a decision as it used to be, either for local networks or for getting connected to your local Internet service provider. With the commercial release of AmiTCP 4, the revitalisation of the AS225/I-Net 225 package (as found in the Amiga Surfer), and the forthcoming networking tools from companies such as Oregon Research and HiSoft, one might think the field was already too crowded.

Holger Kruse has found cause to disagree. His new TCP/IP networking system called Miami promises an easy-to-use and attractive application for getting an Amiga quickly connected via SLIP or PPP (the two popular methods of directly dialling your Amiga to an Internet provider), with the most up-to-date networking code for increased compatibility with new server software. Miami will not support SANA-II, the well-established Amiga network driver standard but will rely instead on custom SLIP and PPP drivers to better handle the dialup signals neglected by the SANA standard. As such, it will not be aimed at Amiga users looking to construct a local, Ethernet-style network.

Miami promises to be mostly compatible with both AmiTCP and AS225/I-Net 225 applications which use the proper library calls, meaning many popular networking clients for e-mail, newsgroups, Web browsing and IRC should work with a minimum of hassle. Miami is slated for release as shareware in the summer of this year. Mr Kruse has previously distinguished himself through the authorship of other Amiga networking tools, including ppp.device, a SANA-II device for PPP connections and AmiWin, a popular implementation of the X windowing system for network connections.

More information on Miami and other programs of interest can be found on Mr Kruse's Web site, http://www.america.com/~kruse/home.html. Alternatively, you can reach him by e-mail at kruse@cs.ucf.edu.

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New!! Artworx	£8.95
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New!! Global Amiga Experience	£22.95
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New!! Groliers Encyclopedia 2	£19.95
Illusions in 3D	£8.95
New!! Light ROM 3 (3 disk set)	£32.95
Light Works	£29.95
Magic Illusions	£11.45
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MultiMedia ToolKit 2 (2xCD's)	£19.95
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Popular BASIC programming language for all Amiga's

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As easy to use as ABC 24 pin colour printer

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Requires 2Mb of Ram & Hard Disk With Kickstart 2.04 or above.

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New Ver. 2, Incorporating Notator-X and Music-X modules.

RRP £34.95

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Extracting CoverDisk files

Before you even think of putting the coverdisks anywhere near your computer you should make sure you write protect them by moving the black tab in the top corner of the disk, so you can see through the hole. Doing this makes sure you cannot damage your disks in any way. There is no reason why the coverdisks need to be written to, so even if the computer asks you to write enable the disks, don't do it.

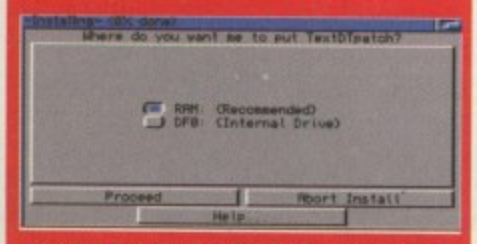
To extract any single archive, simply double-click its icon and follow the on-screen instructions. If you want to quickly extract the program to RAM, select the NOVICE level on the welcome screen and press proceed once on the current screen, and then again on the next. The program can then be found in your RAM disk. Normally most programs need further installing, so read the documents on how to do this.

Hard Drive users

Hard drive users do not have to boot with the first disk, but you must make sure you have the Amiga's *Installer* program in your C drawer. To make sure your hard drive has the correct files in place, double-click on the SetupHD icon. This will check if you have the Installer program and if not will copy it across – do not worry as it will not write over any existing files.

All you hard drive owners will find MultiExtract very useful. It is a separate method of extracting the coverdisk files and allows you to extract a number of files in one go, to your hard disk or RAM.

When you run MultiExtract you will be presented with a number of check boxes, each representing one of the programs on that coverdisk. Just de-select all the programs you do not want extracting and then press proceed. All the selected programs can now miraculously be found in the selected destination.



This is MultiExtract for all you sensible people with hard drives

The coverdisks





Image Engineer is back. Meaner, leaner and looking quite sharp to boot

Installing Image Engineer

Before you can use Image Engineer you need to have SuperView installed on your machine – if you used Image Engineer from our Christmas issue you do have an old version of SuperView but you should still install the new version from our coverdisk as there are a few bug corrections and more features. SuperView is a set of libraries that allows Image Engineer to load and save a large number of different file types, so toddle off and install SuperView and come back.

To extract the Image Engineer archive off the coverdisk you should boot up your machine as normal. Once Workbench has loaded, put the first coverdisk in your floppy drive and double-click on the 'AC' icon. If you have not used an *Amiga Computing* cover disk before, or you do not have the Installer and Lzx programs on your hard drive, you will need to double-click the *SetUpHD* icon.

Using the normal *Amiga Computing* installer you can extract the Image Engineer archive to wherever you like, and once this is done you will have to install the program to a permanent location on your hard drive – there is a installer to do this which you should use. This will copy all the files in to a drawer as well as copying the BGUI library and setting up an assign.

DISK 1





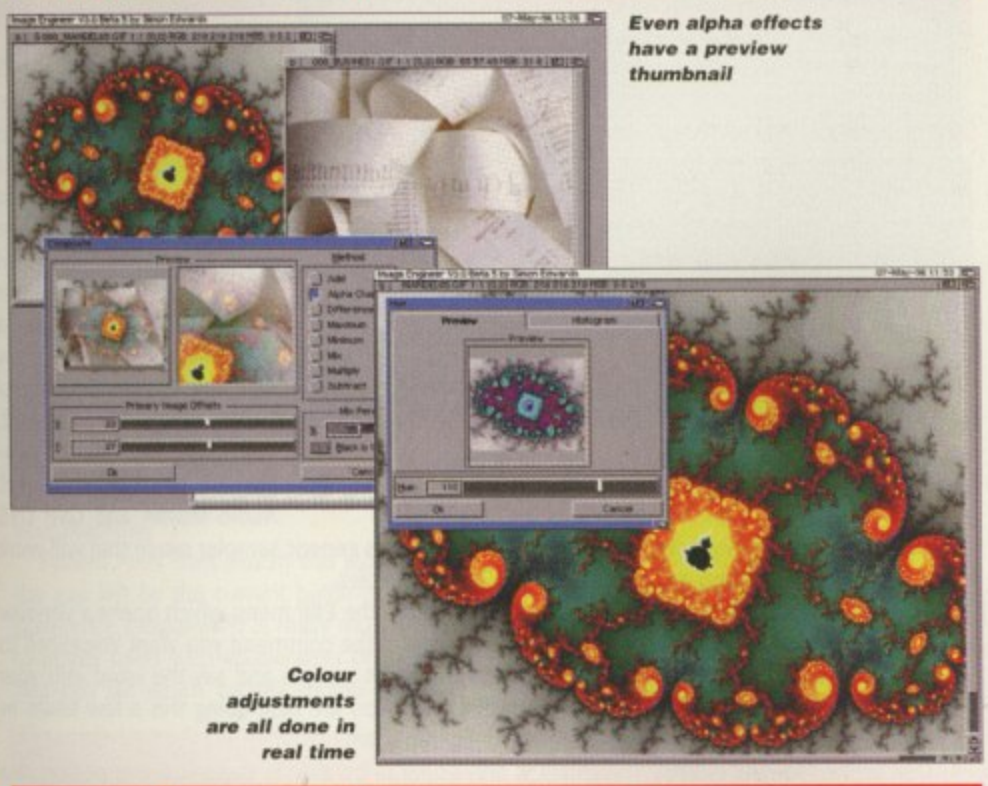
With Image Engineer's built-in effect modules and ARexx port a multitude of image processes are at your disposal

SHAREWARE

Many of the programs on the second cover disk are what are commonly known as Shareware. Such well written programs take many hours to write and a lot of hard work and dedication on the part of the programmer.

When a program is called shareware it means the programmer has generously allowed you to try out their program, a lot of the time with no restrictions, and if you then decide you like it you are obliged to send the author the shareware fee.

Normally this is no more than ten pounds and in return the author will usually keep you supplied with the latest version of that program, along with their undying grattitude of course. So please don't forget to send your fee.



Even alpha effects have a preview thumbnail

Colour adjustments are all done in real time

IMAGE ENGINEER V3 DEMO

Author: Simon Edwards
Workbench 2.04
68020 processor
Hard Drive

Image Engineer is one of the most impressive public domain programs I have seen in a long while. An Image processing program in the style of Image Studio, this latest version of Image Engineer takes all the features and functions of the earlier version and adds a new front-end, making the whole program much easier and straightforward to use.

Thanks to the use of BGUI all the effects that Image Engineer performs can now have full colour or greyscale previews, so you can get a very good idea of what the final image will be like without having to go through the whole process. Thanks to the new modular design, new processes can be added at a later date, making Image Engineer even more expandable than ever before, and thanks to its ARexx interface complex multiple processes can be automated, allowing a process that would normally take many steps to be done with a single command.

With the use of BGUI and the new modular design, Image Engineer allows you to define exactly what extra menus you want. As standard you get the normal Project and Image menus that you cannot change, but from the Menus option in the prefs menu you can add as many new menu items or menu sub-item entries as you like. These can then run either a module, ARexx script or internal Image Engineer ARexx command.

If there is a function you use a lot you can even apply a hot key to it for instant access. An extra function provided by the menus is that if you regularly load/save from/to the same directories these will be added to the load/save menus so you can choose them without having to go through the same directories every time.

Possibly the best new feature for version three is the introduction of previews to just about all the effect modules. When you select to use an effect a scalable window will appear that contains a thumbnail version of the current image, along with a close-up preview of what the final effect will be like. You can select any area of the thumbnail to view and the close up view will be updated. Also, as you change the various values of the effect these will also be displayed in the close-up preview.

Most of the effects have this dual display and if you have one of the faster 030 or 040 accelerators the previews will be in real time. On a 020 you will normally only have to wait a couple of seconds at most, and as a preview is progressively displayed you can get an idea of the finished effect virtually straight away. Colour effects such as gamma and contrast only have the thumbnail preview, and even on a plain A1200 take effect in real time and allow you to make adjustments until you are completely happy before committing to the effect.

FAULTY DISKS

If you should find your Amiga Computing CoverDisk damaged or faulty, please return it to:

TIB Plc, TIB House, 11 Edward Street, Bradford, W. Yorks BD4 7BH.

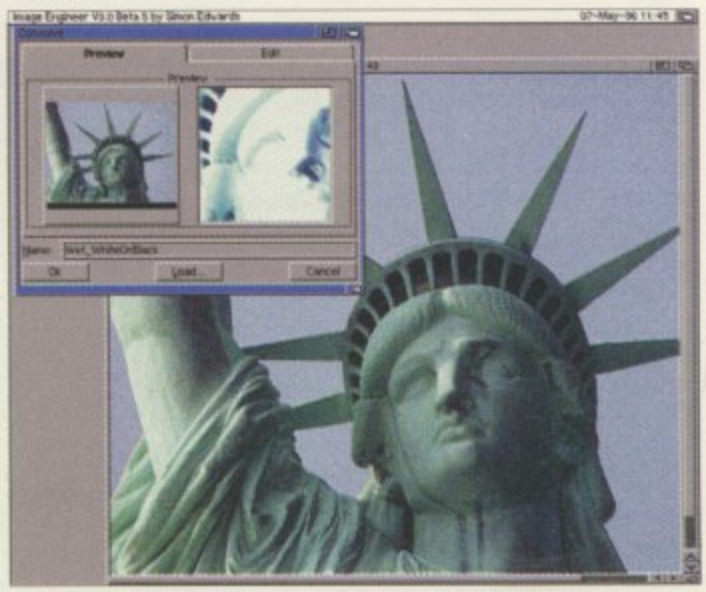
Please allow 28 days for delivery

IMAGE ENGINEER MODULE FEATURES

Image Engineer has over 30 individual effect here is a selection

AutoCrop – quickly remove background
Brightness – change brightness of an image
Bulge – bulge in or out part of an image
Composite – create composite images from 2 sources
Contrast – adjust the contrast of an image
Convolve – apply a user definable convolve to an image
Displace – move the pixels in an image under the alpha control
Equalisation – optimises the image's histogram to improve clarity
FalseColour – apply false colour to an image
Gamma – adjust the gamma levels of an image
Halftone – halftone the image under alpha control
HighBoost – highlight fine details in an image
HighPass – extract the fine detail from an image
Histograms – display an image's various histograms
LocalStretch – highlight the detail in an image
Maximum – filter an image using the greatest pixel value
Posterize – applies a posterize effect by reducing the colour range
Rotate – rotate the image
Twirl – twirl a part of an image

Convolutions are completely user definable



SUPERVIEW LIBRARIES

Author: Andreas Kleinert
Workbench: 2.04

Before you can use Image Engineer you need to install the SuperView libraries onto your system. The SuperView libraries are a collection of Amiga run time libraries and modules that allow other programs that support SuperView to easily load, save, convert and process images with the minimum of ease. This allows programmers to concentrate on perfecting their program without having to worry about supporting every different type of picture format out there.

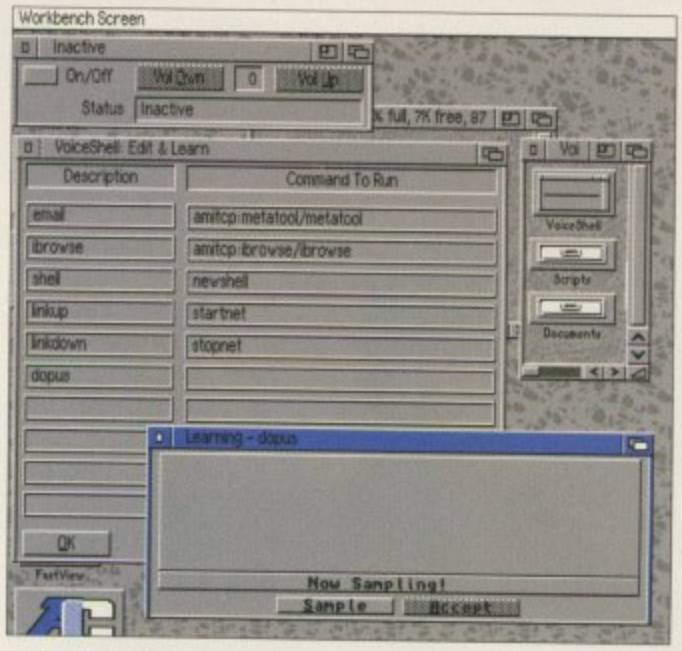
We have been given special permission from the author, Andreas Kleinert, to distribute a cut-down version of the original SuperView library. Please note, the archive found on this month's cover disk is a special version solely for *Amiga Computing* users and it cannot be re-distributed by any other means, public domain or not. A full version of the SuperView library can be found on Aminet.

Installation of SuperView is very straightforward using the standard Amiga installer program, Even though you must make sure you have the Installer program in your C directory. If you are not sure whether you have or not, double-click the SetUpHD icon on the first coverdisk and this will make sure you have the Installer program and Lzx.



VOICESHELL

Author: Toni Blinnikka
Workbench 2.04 Sampler



Using VoiceShell you can make people think you are going mad by talking to your Amiga all day

If you own a sampler this program will be of interest to you. Basically, it allows your Amiga to learn and recognise your voice, allowing you to run programs by saying what program you want.

Unfortunately, VoiceShell does not come with an installer so you will have to set it up yourself. Luckily this is not too bad because you will only have to copy the voice library into your Libs drawer, and if you are Finnish there is a language file that you should copy into the Locale/Catalogue/Suomi drawer. As standard, VoiceShell has direct support for the Perfect Sound, Audio Master and GVP DSS 8 samplers. If you do not have one of these then there is a generic sampler mode that will work with most other samplers such as the TechnoSound sampler.

To enter a new command, select the Commands from the Edit menu which opens a window into which you can enter new commands. If you type in the command you want VoiceShell to recognise, this opens the learning window and if you hit sample and say the word into your microphone VoiceShell will attempt to learn the word. You are best doing this a few times as this gives VoiceShell a clearer idea of how you say the word.

Due to the learning system, VoiceShell is only going to be able to recognise one person at a time because everyone has their own way of pronouncing words and their own accent. So if there are a couple of people using the same machine you will have to have a separate preference file for each person.

PCRESTORE

Author: Mikael Nordlung
Workbench 2.04

This is a really helpful program for anyone who regularly has to go near the good old PC. Normally, unless you are in the privileged position of having access to a PC and Amiga with a SCSI interface or something like a spare Zip drive, when transferring programs from the PC to the Amiga you are stuck with the biggest file you can transfer between the two machines being 720k.

What you need is something that allows you to back up a load of files from the PC onto as many PC floppies as it takes. Well, on MS DOS there is a command called Backup that is for backing up your hard drive. PCRestore is an Amiga program that allows you to restore these PC backup files, so you can back up as much as you like and then take your fistful of disks over to your Amiga and get back all the files.

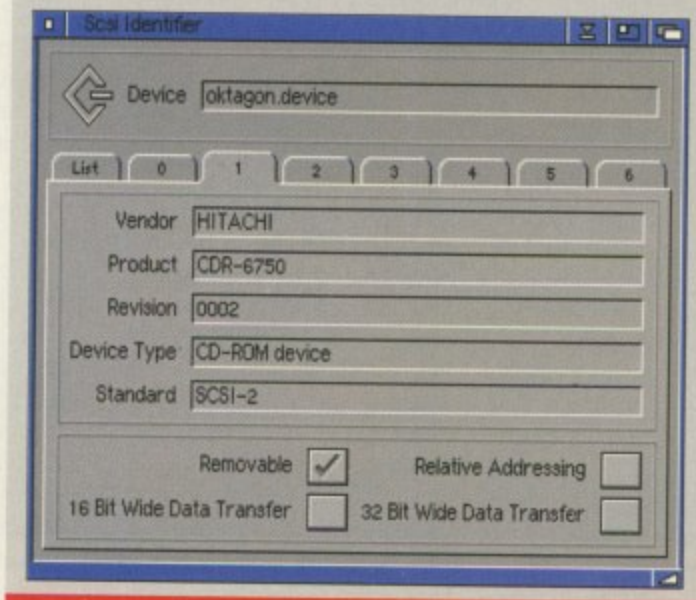
Even if the files you are dealing with are smaller than 720k it is a lot easier to simply save all the files in one go than having to try and fit them all on separate floppies. Unlike the PC command, the PCRestore program comes with an easy to use front-end, so all you have to set up is where you want the programs to be extracted to.

SCSI LIST

Author: Richard Sellens
Workbench 2.04, Magic User Interface

*To use the following program you need to have the **Magic User Interface v3.2** or higher installed on your system. Without it you will not be able to run any MUI program. MUI is available from any good PD house.*

A problem with hooking up new hardware is that once connected, if the thing does not start to work straight away you can never be too sure exactly where the problem is originating. It could be a software problem, an incompatibility problem, a jumper setting or just that you have not connected the damn thing up correctly. This is also true when adding new devices to a SCSI chain, but SCSI List will help you figure out what devices you have connected and what they are.



If you need to check what is on your SCSI chain, SCSI list can help

Due to the different SCSI cards and interfaces out there, SCSI List will need to be changed to look at your SCSI interface. Be it a Squirrel, Oktagon card or whatever, you will need to alter the DEVICE tool type in the SCSI List to the device you are using.



REALDRAG

Author: Stuart Monteith
Workbench 2.04

RealDrag is a tiny little program that is completely straightforward to use. Just extract it off the coverdisk and double-click on it, and if you now hold down the Ctrl key and select a window with the mouse key you can move the window around without using the title bar. Okay, so it is not exactly going to set the world on fire but it means you can easily move windows without having to shuffle other windows out of the way. One effect of RealDrag is that you can click once in the window and then click again where you want it to appear.

SYSTEM PREFS

Author: Richard Korber
Workbench 2.04

Workbench 2 introduced the current preference system along with the, then, new preference program that allowed you to control and tailor all the different parts of your Amiga to your tastes and requirements. One area that was skipped over, however, was some sort of control over the actual hardware such as the CPU, memory and custom chips. You had control via the CPU command but this has to be used from the shell which you would have to run every time you started your machine.

System Prefs does exactly this job and fills the gap left by the current batch of system preference programs. It is really more of use to power users with accelerators or A4000s. You can set which caches should be used and other such things. An installer is provided and will copy the two main System Prefs programs across along with a couple of libraries.



With System Prefs you can now adjust all your CPU caches

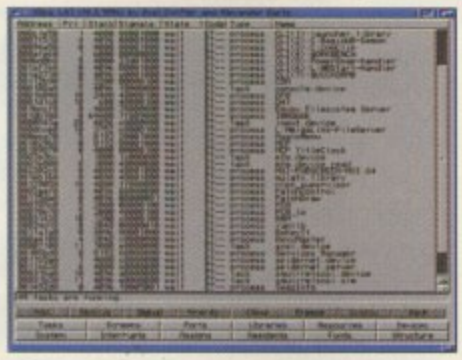
You will, however, still need to add a line to your Startup-Sequence. If you open a shell and type *ed s:startup-sequence* you need to add the line **SysPrefs >NIL:** somewhere before the IPrefs command.

XOPA

Author: Axel Dorfler
Workbench 2.04

It is one thing that you should not have to do but every now and again it is helpful to have a nosy at just what is going on in the inner workings of the operating system. XOpa is a system monitor very much along the lines of ARTM.

Using XOpa, every private little nook and cranny will be at your finger tips and available for you to play around with. You will be able to find out details of every task and program currently running, every screen and window, libraries, fonts and devices, along with other esoteric details.



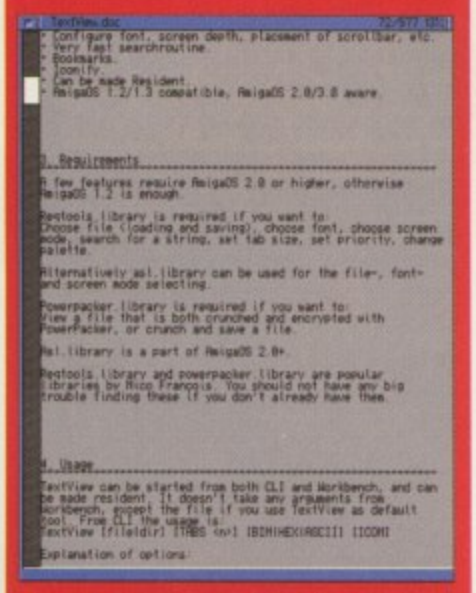
Now you can find out loads of stuff you never wanted to know

TEXTVIEW

Author: Torbjorn Andersson
Workbench 2.04

If you are looking for a replacement for the horrid old More or just an ultra fast text reader, TextView could fulfil all your requirements. It's fairly small and can load and even save large text files in a blink of an eye.

It is all very configurable. You can run TextView on its own screen or as a window on any public screen. Any font can be used and you can even set where you want the scroll bar positioned.



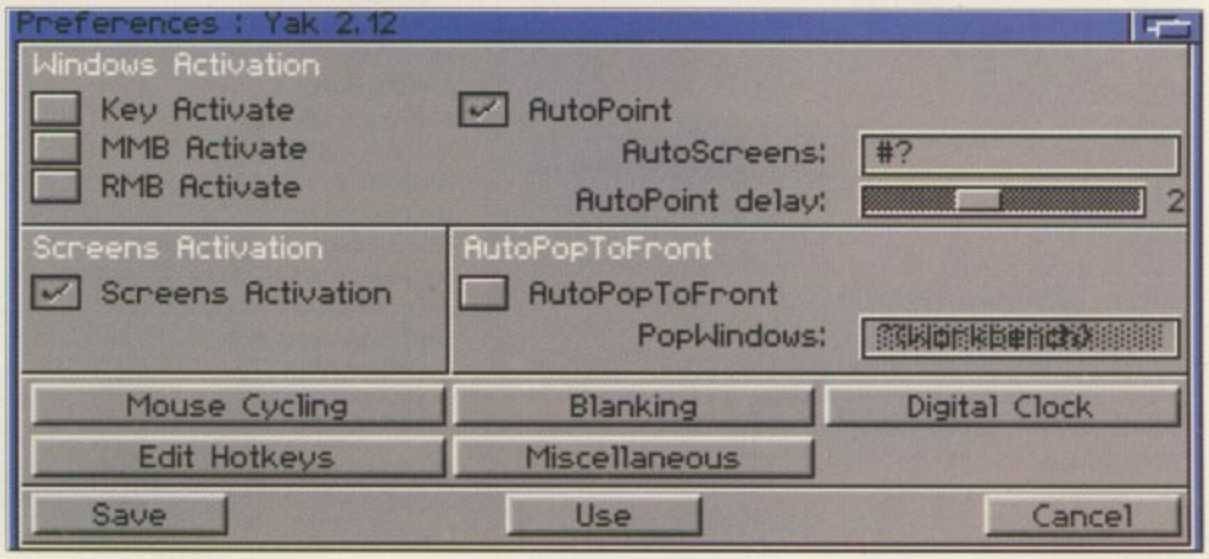
If you are looking for a darn fast text reader TextView is for you

YAK V2.12

Author:
Workbench 2.04

Yak is one of the older system 'enhancers' and has been around for a while now. Instead of taking the MCP or MCX approach of trying do everything, Yak just concentrates on a few main functions but gives you a lot of options. Along with a very configurable mouse cycling section that gives you plenty of control over your windows, you also get a very comprehensive hotkey support that lets you do almost anything you want.

There is a new digital clock and plenty of miscellaneous options that are all adjusted from an easy-to-use preference program. Yak comes with an installer that copies all the correct files across. There is a BGUI version of the preference program that if you have installed Image Engineer you will be able to use.



Broadcast news



Harv Laser reports on the annual NAB show and discovers how the **Amiga** is becoming part of the new media of the future

The National Association of Broadcasters (NAB) annual convention was held in Las Vegas, Nevada, on 13-18 April. Attracting over 93,000 attendees, NAB is a combination of dozens of 'conferences' (industry and insider speeches, panel discussions, seminars and luncheons,) and nearly a million square feet of manufacturer exhibits. It's impossible for any one person to actually see everything at such an exposition, and I didn't even try, not only because of the distances involved, but because NAB tries to cater to so many diverse fields of interest, no one person would even want to see it all. Well, unless you're Ted Turner.

This convention's focus is radio and television broadcasting, so the topics and exhibits really run the gamut from anything and everything even remotely associated with those industries. Some of the conferences included 'Radio Station Management', 'Broadcast Engineering' and 'Broadcasters Law and Regulation'. News crew cameras were present everywhere and NAB daily generated many hours of its own television show with interviews and exhibits coverage. This show was broadcast both on monitors inside the convention halls and on special channels to a couple of dozen of the larger Vegas hotels where attendees stayed.

The NAB exhibits featured nearly 1,000 companies and, for the first time, the immense Las Vegas Convention Center could not contain it all, so it spread into the nearby Sands Expo Center as well. On the exhibits floor, you could see the latest state-of-the-art technology ranging from huge displays of a TV news helicopter equipped with rotating camera pods, to radio station amplifiers, mics and control boards, motion control film cameras, mobile audio, cellular, the new Digital Video format, computer animation software and hardware, non-linear editing, right down to single table displays of such mundane accoutrements as cable tie-downs, amplifier tubes and labels for tape reels.



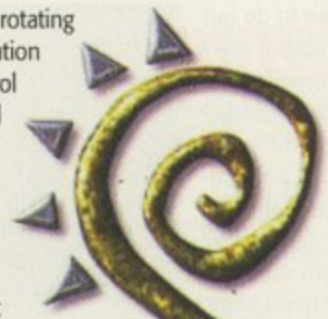
LightWave Pro spinoff Alpha Visual FX deals with graphics software for DEC Alpha-based machines

MONEY SPINNER

You'll remember a couple of years ago, some NewTek management, including VP Paul Montgomery, engineers and PR people left Kansas for Sacramento, CA and merged with Digital Creations to form Play, Inc. They've been living off the profits of their incredibly popular Snappy PC video digitizer since then, and Play again showed its 'under $10,000' Trinity video system, the alleged Toaster-killer. Trinity's real-time ADO effects are truly astonishing, and its new alliances with Microsoft and SoftImage makes for even more impressive publicity, but they showed the Trinity prototypes at last year's NAB and it's still not shipping. When it does, though, the Video Toaster is in for some stiff competition.

As with other recent 'Big Vegas Conventions' (CES, COMDEX, etc.) the Internet has become a player at NAB and this year it featured a special pavilion hosting some large on-line services, smaller providers, Web vendors and developers, and computer vendors who make the hardware to tie it all together. Many exhibiting companies seemingly have unlimited funds to attend these trade shows. It can easily cost a company up to $200,000 or more to haul a few dozen employees to Vegas and host a large booth, and many of them might show at ten conventions each year.

After reading a handout in the press room of the security checks a reporter was required to go through to attend a speech by US Vice President Al Gore, I decided to forego that treat and, instead, wandered about the huge exhibit halls, concentrating mainly on the 'NAB Multimedia World' at the Sands Expo Center which contained the exhibits that the readers of this magazine would probably find most interesting.



The new trimmer NewTek looks set to have a bumper year if announcements are anything to go by

Between the $3 cans of Coke and the $5 hot dogs, there were some technically appetising attractions. Although I had hoped it would be otherwise, the Amiga was not much in evidence at this year's NAB. VIScorp, who by now you know as fourth keeper of the Amiga flame (after Amiga Inc., Commodore, and Escom) had planned to attend NAB, but its public relations officer sent me e-mail and told me that it had decided instead to ship its executives off to Europe for the recent WOA show in the UK and to Germany for discussions on its planned purchase of Amiga Technologies GmbH from Escom. Amiga Technologies appeared last year at VTU Expo in Hollywood, and COMDEX in Vegas, but since then has not appeared at any other US-based trade shows. Hopefully, that will change. Perhaps I missed others, but the



Bigger and bigger than ever, NAB 96 wasn't better as the ratio of Amigas to other machines gets smaller



LightWave 5 was NewTek's shock announcement at NAB, but when will the Amiga version arrive?

only Amigas I noticed were at NewTek's large booth, and the mostly-an-Amiga at Draco Systems' small area. Near the back of the Sands hall, I found AMG Media, (http://www.portal.com/~amg), where the publishers of Video Toaster User and LIGHTWAVEPRO handed out free copies of its newest publication, Alpha Visual FX magazine, a glossy, 42-page periodical whose purpose is to 'focus on 3D animation, graphics and video applications running on high-performance Windows NT systems built around the Digital Alpha microprocessor family.' Since NewTek's products are no longer Amiga-specific, it makes sense for a publisher who mainly covers those products to branch out too. NewTek's area, while large, seemed to contain a lot of empty space.

STAGE SHOW

Ringing the perimeter were individual stands featuring all the computer systems on which one could run LightWave 3D, or into which one could shove a Toaster or a Flyer system. The central area held a small stage, backed by a number of monitors, and a desk at which various NewTek engineers demoed its products to an audience seated on small, uncomfortable stools.

NewTek can still give a good demo, and LightWave has really made a name for itself as the 3D rendering tool of choice for many production houses, so the booth was constantly crowded. Off to one side was a bright red phone booth with a direct telephone connection to NewTek's offices back in Topeka, Kansas. From inside this booth, one could order or upgrade to LightWave 3D version 5.0, the biggest surprise NewTek sprang at NAB. LightWave 3D's new list price for all platforms is now $1495, upgrades for $495, and the Amiga version upgrade for $295. Intel and DEC Alpha versions are shipping now, with the others to follow.

In a somewhat surprising move, NewTek also announced a port of LightWave 5.0 to the PowerMac platform (to ship later this year), and in another press release unveiled a "technology alliance" with Sun Microsystems, with a Sun port of LightWave 5.0 involving Java technology forthcoming. LightWave 5.0 is literally bursting with new features, far too many to list here, including over 50 new plug-ins, so check out NewTek's Web site at http://www.newtek.com, the LightWave Internet mailing list, and LightWave Usenet newsgroup for tons of information and specs.

The most significant new LW features demonstrated at NAB were probably the 'OpenGL' real-time camera and lights preview modes in both Layout and Modeler (unfortunately, not available in the Amiga version), and 'MetaNurbs' in Modeler (for all versions). MetaNurbs is an extremely cool and powerful new modelling addition, effectively turning your polygonal model into a lump of clay. I watched a live demo of this where a simple cube was pummelled and pounded into both a hair dryer and the head of a rabbit in less than a minute.

Another exciting addition in LW is a more advanced bones feature. The demonstrator added a couple of bones to a very simple human arm model and when he bent the arm, its muscles flexed! If you haven't guessed by now, many of these new LW features are geared towards better character animation. After all, there's more to life than blowing up spaceships.

Of course it's the job of any expo demonstrator to know his product inside out and make using it look easy. But like any complex program, LightWave has generated a huge amount of third-party training support, and Desktop Images was at NAB, just a stone's throw from NewTek's booth, hawking its line of LW and Toaster training tapes. While the



"Taken as a whole, NAB is a snapshot of the state-of-the-art in broadcasting. It's the industry's yearly examination of itself, trying to decide where it is and where it wants to go"

LightWave demos were performed using a new Intergraph TDZ running Windows NT with a very fast processor, the Flyer (NewTek's tapeless, non-linear editing product) demos were done with an Amiga 4000 Tower.

Although I don't do any video editing myself, I couldn't help but be impressed by the Flyer. It's matured to the point where even to a layman like me, it looks like throwing together a broadcast-quality video of any length, including perfectly synced sound effects and music, would be a cinch. It's still amazing to watch these demos and realise that everything one is seeing is coming directly off a hard drive, with absolutely no video tape used at all.

Between demos, NewTek's booth had constantly running 'demo reels' featuring cuts from shows such as Babylon 5 and seaQuest DSV, whose special effects were produced with LightWave 3D. At past NAB conventions, it had become a NewTek tradition to hold a press conference and new product intro at a huge ballroom at Caesar's Palace. This year was different, however, as the apparently leaner and more cost-conscious NewTek instead held an invite-only party at a Vegas dance club (formerly a casino) called 'The Beach.' The bad dance music on the distorted sound system pretty much drowned out the announcements from where I sat, but I spotted the cream of the LightWave animator community there, including Allen Hastings, Mark Thompson and Steve Worley (who is soon to release his new LightWave plug-ins). Actor and 'Toaster Head' Dick Van Dyke was also reported to be at the party, although I didn't see him myself.



And finally the Mac gets a decent 3D package; NewTek completes the set of machines that LightWave is available on

INTO THE FUTURE

Taken as a whole, NAB is a snapshot of the state-of-the-art in broadcasting. It's the industry's yearly examination of itself, trying to decide where it is and where it wants to go. The products exhibited there are what the trade is, and will be, using to produce the news and entertainment programming served up to the public over the airwaves on cable, via satellites, in theatres, and more and more on the Internet. This expo keeps growing because the methods of media delivery do. In some fantastic future, (which probably isn't that far off) when we all may have a 500-channel set-top-telephone-internet-movie box sitting atop the telly, it may very well have Amiga guts inside it, and the companies who attended NAB are the ones who will cranking out the programming to fill it.

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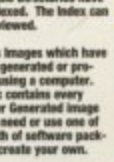
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CHART	6	.3
CHIP	78	2.3
CHIPTUNE	97	1.9
COUNTRY	4	6.7
CTP	14	4.9
DEMO	38	6.8
DREAM	4	6.2
FBT	6	1.1
FILMS	34	4.7
FUNK	90	14.1
HARDC	5	1.1
HOUSE	329	57.0
HV	15	1.6
JAZZ	3	.5
JINGLES	83	8.3
JOGEI	26	7.5
JUNGLE	26	7.5
MAYYM	6	1.7
MED	50	6.0
MISC	166	24.7
PIANO	22	2.4
POP	6	1.2
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3D IMAGES

CODE: CD280
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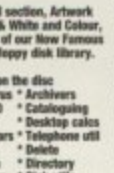
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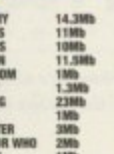
Excellent ready-to-run Workbench has been provided on the disc for easy use.

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A comprehensive Library of 3d objects



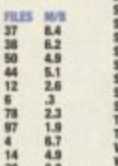
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C64 VOL 2

CD301
£19.99



Remember the good Days - Contains all the Software that we have collected during our great times on the C64. Dating from 1984 to present day.

* Surprising as it may seem to a lot of people there is still a lively C64 scene today. Although very different from a few years ago there are still a lot of people still heavily into the 64. And the rest of you, like us, have a lot of great memories.

* That is one of the reasons why we compiled this CD.

So anytime we want to reminisce the old days you can just pull out the CD, plug it in & Everythings brought back.

* We Garuantee you! that you will not have seen many of these amazing Mega demos as a high amount have not been releases before.

* Our C64 experts have spent months of fruitful work preparing this disc, converting files from 5 1/4 inch floppy disks, Searching through the internet sites, talking to programmers etc.

AMIGA - Contains Amiga tools to be used for copying & converting the .D64 images back to your 1541 or into your Amiga. Also included is the FULL version of A64 Emulator Package.

DEMOS - This directory contains our entire C64 Demos collection. They date back from around 1986 until April of 1995.

There are literally thousands of demos and magazines. Oh the fun I had looking over my old demos and reading charts in 5 year old magazines. The collection is as complete as it could be for someone mail trading for years.

MS-DOS - Contains various IBM tools to be used with the image files. The IBM Tools section is considerably larger than the Amiga Dir.

In here you can find a tool to do virtually everything you have ever dreamed of to a .D64 file. Also included are the latest Shareware and Upgrade copies of C64S and PC64, the two most common PC C64 Emulator's.

SID TUNES - In here you will find hundreds of Sid Player tunes. All the tunes are in Amiga Playsid format BUT have all been renamed with PC SidPlayer file extensions so they are runable on a PC as well. They are also runable through PlaySid. The latest versions of which is also on the disc are provided in the relevant Tools directories.

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SCENE STORM

CD286
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Is an all new Amiga Demo Scene CD produced by Digital Candy and the legendary demo crew - Spaceballs.

The CD is packed to bursting point with the most jaw dropping Scene productions.. Releases from over 20 Parties, held throughout the world are featured including the famous Party 5.

Only those of the highest standard have been chosen, all of them proving that the Amiga is still the machine for graphics & music.

SLIDESHOWS - From the Scenes big name groups.

DISK MAGS & CHARTS - From Europe are ready, including latest issues of Raw, Rom, Grapvine & Scene Talk.

MODULES - To play and use from the CD or in your own trackers. Exclusive Mods taken from the coolest demos as well as entries from Digital Candy BBS Music Competitions.

SCENE STORM - Is the most concise and easy to use Scene CD ever released. The files are presented in Ready-to-Run format, with a fantastic Magic Workbench interface featuring custom icons. Pointing and clicking is all that is required to run the files which are all individually commented with compatibility details and the ability to abort back to the WB.

This CD simply oozes quality from the very moment you see it. The programs on Scene Storm will give your Amiga the biggest workout it has ever had, all without cluttering up your work disk.

AGA machine (a1200/a4000) is required to obtain full benefit of this CD.

Order SCENE STORM today - its the best thing to hit the Amiga this year!.

MUSIC DISKS - Straight from the keys of the finest groups around including Razor 1911, TRSI, Suburban Base & Grass Hopper Development.

A pleasant cross section of material from the underground UFO Scene. Features fascinating material that the military & government have tried to keep under wraps. Find out for yourself what is really out there!.

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CODE: CD169
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WEIRD TEXTURES

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The Best utilities CD for use with your workbench.

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This CD covers all areas of interest: The programmer, the user, the creative and the gamer will all find what they need.

There are many shareware programs on this CD that are a special price if you register them.

AGA EXPERIENCE 1

CODE: CD210
PRICE: £18.99

The Best Selection of AGA Software anywhere



NFA - Famous for their 'Nerd' diskmag, & Bodyshop slideshows, are very proud to present their first Amiga CD-ROM disc - First CD dedicated to AGA owners.

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MAGIC WORKBENCH - Colour scheme and icons. We have spent months making this CD the very smartest looking CD available today.

WORLD ATLAS

CODE: CD305
PRICE: £28.99



Wisedome Limited presents a brilliant new World Atlas designed exclusively for the Amiga market.

The atlas will run on all AGA machines (CD32, A1200 and A4000) and it is based on the Mountain High Maps collection incorporating state-of-the-art enhanced satellite maps.

The pages used have been specially designed to operate most effectively with the control system on CD32 as well as a mouse on other systems.

Economic, cultural, and historical facts are fully and clearly represented. Over 190 countries are included, each supported by 2-6 maps separately depicting major cities, rivers, mountains, and geographical position, together with national flag.

The Atlas has been extremely well received by the experts. Here are just a few quotes.



'If you ever wanted to find out about the World you won't find a better package than the World Atlas'. - Amiga Computing 90%'.

World Atlas... Must have taken a very long time to compile... The maps are of excellent quality and the final round up of details including population, religion, languages and GDP are very interesting' - Amiga Shopper 90%'.

Whether you are looking for an atlas for educational or recreational purposes you can't do much better than opt for this well presented program' - Amiga Format 91%'.

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Aminet Set 3 (NEW) - £19.99 Pre-order for release in three months.

Since the release of Aminet 10 more that 500Mb of new software has appeared.

The excellent user-interface has also experienced further improvements.

The Aminet continue to collect some of the best reviews from all major Amiga Magazines.

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CODE: CD218
PRICE: £9.99



is the unique software solution that defines a new standard.

DESIGN - Extensive formatting options, all supported font formats allowed, no colour restrictions, various cell frames etc.

FUNCTIONS - More that 100 functions covering arithmetical & financial.

DIAGRAMS - All common chart types supported, footer and header, legend and axis label-ing, output as 'IFF-file or graphic printout.

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NET NEWS (OFFLINE)

CODE: CD298
PRICE: £9.99



This is the first in a series of CD published quarterly. All Amiga related newsgroups from Usenet and other networks are published on this CD. NetNews Offline is one of the most interested CD released in 96.

"A must have for every owner".

BLANKERS COLLECTION

CODE: CD295
PRICE: £13.99



This CD contains Blankers that have been released for the Amiga. Many of the blankers are ready to use as well as some for graphics cards and KS1.2. Also includes The latest Shareware programs, lots of modules, animation's and fonts.

ADULT SENSATION 2

CODE: CD206
PRICE: £19.99



Not only contains 4,000 new colour images but also includes ton of adult related software.

Contains Music Samples, Music Modules, tons of adult stories, adult animations, back & white 70's photo's Adult games and much much more!. (Over 18 Only)

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CODE: CD278
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Tetris is the most loved and played computer games of all time.



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is possibly the Amiga's largest selling Adult title. Work with both PC and Amiga computers. Over 4,000 high resolution 256 colour images. (Over 18 Only)

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CODE: CD294
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This CD offers NetBSD 1.1 which is a full featured UNIX-alike operating system for the i386,Amiga, Sun3, Atari, VAX, DEC and spare. There are also additional programs and source packages.

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Explore the vast secret Images and Pictures!



Each picture on this disc, has no text, no BBS Doors, No borders taking up space.

* Comes complete with an excellent Menu System which makes it easy to view the images quickly.

* Superior collection of photos taken by professional photographers. They have been colour corrected to assure quality.

* Contains Adult material and is not for the faint hearted. If this material offends you in any way please do no purchase the disc.

PCX CLIPART 2

CODE: CD053
PRICE: £17.99

With a 250 Page Book



is crammed full of clipart etc.

Everyone from Juniors to adults will simply love flicking through the 250 page book selecting the pictures.

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Stocked up with lots of queries to add collections.



We have included several useful utilities to enhance the performance

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* Cats
* Dogs
* Maps
* Helicopter
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* Misc
* Places
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* Ships
* Trains
* Buildings
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Pics & Anims	630Mb	2,000
Graphics	170Mb	430
Misc	150Mb	270
Demo	630Mb	2,000
Games	250Mb	530
Dev	110Mb	340
Disk	10Mb	110
Hardware	5Mb	90
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Demo	336Mb	900
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Germany's most popular Amiga CDROM has grown by a new addition!



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96Mb	PasTeX v1.4
45Mb	Utilities & HTML-Pages.

THE SOUND LIBRARY

CODE: CD101
PRICE: £19.99

Over 1.2 GIG of SOFT-WARE



A Double Disc Set with the most comprehensive collection to date.

* MIDI - files various formats.
* Over 6,500 Music Modules.
* Over 1,000 Music VOC Files.
* Over 1,000 Music WAV Files.
* Over 1,000 Music Samples.
* Ready to Run - 100's of Music related software packages, Editors, Mixing, Converters, Sequencers, Drivers, Players, Trackers, etc.

* Also includes loads of ready to run software.

SCI-FI SENSATIONS

CODE: CD207
PRICE: £18.99

Is an exciting new Double Disc Set



Containing over 1000Mb of Science fiction related software. images, Music, Anims, 3D objects (Imagine & Lightwave), Sound FX, Documents, Tunes, Information and Games.

* Thunder Birds
* Aliens
* Next Generation
* Deep Space 9
* Batman
* Bladerunner
* Total Recall
* Battlestar Galactica
* Babylon 5
* Star Trek
* 2001
* Voyager
* Dr Who
* Robocop
* Tron

CDROM BASED

* Special offer or sale price

CD010	GOLD FISH 1	£19.99
CD0288	FONTS & CLIPART	£9.99
CD033	THE AMOS LIBRARY	£16.99
CD034	ASSASSINS GAMES	£9.99
CD040	EUROSCENE	* £4.99
CD042	W.SCIENCE CLIPART	* £7.99
CD043	W.SCIENCE FONTS	* £7.99
CD044	SOUND TERRIFIC	£19.99
CD051	PRO IFF & PCX	£9.99
CD057	LIGHT ROM 1	£39.99
CD058	GOLD FISH 2	* £14.99
CD059	AMOC 2&3	£19.99
CD060	HOTTEST 4	£7.99
CD061	VARIOUS 1-1500	£7.99
CD062	LSD TOOLS	£7.99
CD066	TOWN OF TUNES	£19.99
CD067	ILLUSIONS 3D	£5.99
CD071	ULTRA MEDIA 1+2	£14.99
CD072	ADULT SENSATIONS	£17.99
CD078	EMERALD MINDS	* £9.99
CD097	FRESH FONTS	£14.99
CD098	W/S ANIMS	£17.99
CD099	LSD TOOLS 2	£19.99
CD103	FRESH FONTS 2	£19.99
CD108	BEAUTY OF CHAOS	£4.99
CD113	GIGA GRAPHICS 1,2,3,4	£29.99
CD114	THE LIGHT ROM 2	£39.99
CD115	FRED FISH TEXTURES	£39.99
CD117	CD BOOT V2.0	£24.99
CD141	THE LIGHT WORKS	£19.99
CD143	TETRA SOUNDS	* £4.99
CD147	CD WRITE	£44.99
CD156	MAGIC ILLUSIONS	£7.99
CD165	GATEWAY	* £7.99
CD168	UPD SET 1	* £24.99
CD176	CRAFTWORKS	£6.99
CD183	GURU ROM	£49.99
CD186	GROLIER ENCYCLOP	£24.99
CD190	IMAGINE 3.0 ENHANC	£39.99
CD191	LIGHTWAVE ENHANC	£39.99
CD192	SUPER CARS - PICS	£4.99
CD199	GLOBAL EXPERIENCE	£23.99
CD202	FROZEN FISH 95	£19.99
CD203	WORLD INFO 95	£19.99
CD205	ARCADE CLASSICS	£14.99
CD206	ADULT SENSATIONS 2	£18.99
CD211	ASSASSINS GAMES 2	£18.99
CD213	LSD COMPENDIUM 3	* £14.99
CD219	FRESH FISH 10	£19.99
CD225	AMIGA TOOLS 3	£24.99
CD226	XI PAINT v4.0	£39.99
CD227	GOLDFISH 3	£19.99
CD228	GAMERS DELIGHT 2	£24.99
CD230	SEXY SENSATIONS	£19.99
CD234	ZOOM 2	£18.99
CD236	W/S COLOUR ART	£7.99
CD237	OCTAMED 6	£29.99
CD247	PERSONAL SUITE	£39.99
CD272	UNIVERSE OF GIFS	£14.99
CD276	HORROR SENS	£19.99
CD277	ADULT 3D SENS	£19.99
CD278	NOTH BUT TETRIS	£9.99
CD279	GIF SENSATIONS	£19.99
CD280	3D IMAGES	£9.99
CD281	NEW WORMS EXTRA	£ RING
CD282	NEW 2,500 TEXTURES	£ RING
CD283	NEW DEM ROM	£ RING
CD284	NEW DESKTOP VIDEO	£ RING
CD285	NEW AMIGA 3D	£ RING
CD286	SCENE STORM	£19.99
CD287	EPIC COLLECT 2	£19.99
CD288	MWB ENHANCER	£14.99
CD289	W/B ADD-ONS	£24.99
CD290	WORLD OF CLIPART	£18.99
CD291	WORLD OF SOUND	* £4.99
CD293	AMINET 11	£12.99

* Double check prices when ordering as many of the above are Special Discounts

HARDWARE

* Internal 6 speed Commodore Branded IDE CD Drive with IDE-Fix (registered ver).
* £75 |Commodore 6 speed CDRom Drive
* £50 for software ide-fix (shware version of the software is also avaible for free with any cdrom or cdrom drive purchades).
* 540Mb 2.5inch hard drives £130 including install software & internal connection lead.
* Come down to our NEW shop show/room & collect your h/ware open 6 days a week.

PROGRAM + TEK

^+ V0298NORTHC V1.3 (AB)
The latest update on the public domain 'C' environment for the Amiga that I am aware of.

^+ V0523DICE C COMPILER (AB)
Contains Matthew Dillons full featured, powerful C compiler and environment system.

^+ V0786PASCAL
Contains everything needed to program in Pascal. Includes A68k 68000 assembler, Blink, Linking software and PCQ, a modest Pascal sub set compiler a

^* V1041DIGITAL BREAD BOARD
is a full GUI digital logic circuit simulator. Digital Breadboard currently supports 2 and 3 input etc

^+ V1056DEVELOPER
Contains the official Commodore developers kits for the Amiga Guide and Commodore Install utilities.

^+ V1060CIRCUIT BOARD DESIGN
Several terrific routines for the electronic enthusiast. Includes PCBtool, a circuit board design tool.

^+ V1209GNU C++ COMPILER (3) [HD]
Theses disks consists of the latest version of the GCC environment. Thus the compiler, driver, assembler, linker, header files inline code generation of library calls.

^+ V1213PROGRAM LANGUAGES
ACE v132, is a PD Amiga BASIC compiler which, in conjunction with A68K & Blink produces stand alone executable's, run time shared libraries are required.

^* V1227GAD TOOLS V2.2C
A standard Amiga shared runtime library which makes it a lot quicker / easier to build standard requesters into programs. Designed with CBM's guidelines in mind.

^+ V1384HOW TO CODE IN C (AB)
Covs Debugging, Intution and Graphic, Kodbibliotek, Tips & Tricks, Aroopa AsmFranC, Dos Intuition, WB start, DMake, GadToolsBox and Power Source.

^+ V1430N.D.U.K V37 (ABCD)
Portions of the Commodore Native Developer Update Kit that can be licensed for distribution. Includes the fd files, libraries, startups, C include files, and tools

^+ V1505MATHS FORMULA EDIT V2.1
MathScript is a formula editor, which is used to integrate mathematical formulas into word processors or DTP programs. It has an extensive amount of mathematical and physical symbols and many control codes for creating fractions,roots, exponents.

^+ V1909REQCHANGE V3.6
Patches Intuition, ASL, ARP & REQ to use the Req Tools requesters instead. It also adds a couple of extra features, like an Amiga Wedge, the possibility to send ARexx commands when a patched requester appears, & several options to configure how the patches behave.

^+ V1919MOTOROLA CROSS ASSEMBLER'S V2.0
Assembler's A50,1,4,5,9,11

UTILS & POPULAR

^+ V1362CHECKERS TOOLBOX
Incredible Amiga diagnosis program. Runs self test on all chips, all the ports and even the disk drive! All your hardware is tested and displayed in graphical information. Every Amiga owner should have a copy! Find out what is wrong with your Amiga before going to the repairer to get it fixed. It may save you a bob or two!

^+ V1405VIRTUAL UTILITIES
Contains 5 utils containing everything needed for any Amiga user to make virtual memory from their harddrive. The Amiga is fooled into thinking it has massive amounts of RAM when really it only has a small amount mapped to a file on the harddrive.

^+ V1719TELETEXT V2.3
View Teletext (also know as Teletekst, Videotext, Ceefax, Skytext, Supertext etc.) on your Amiga. It is suitable for any PAL Amiga (read #1 System requirements link systems req.) for more info, because it uses the parallel port to interface with the hardware. An electronic switch is provided to easily switch between the TeleText decoder and a printer

^* V1335LIBRARIES & DATATYPES
This is a disk packed full of Amiga Workbench 3.0 Libraries and Datatypes. There's 47 Libraries from A to Z all libraries covered are right up to date and waiting to be installed. The disk also have installation notes to aid the beginners. also files in the L and Devs/DosDrivers drawers that can be copied or assigned.

^+ V1641SUPER KILLERS V10.0
The latest collection of virus killers like AntiCicloVir v2.2a, Virus Checker v6.43, VirusZ II v1.07, and VT v2.67. Req the use of LHA which is in the c directory.

^* V1017POST V1.86ENH (ABC)
PostScript interpreter which implements the full Adobe language. Supports Adobe type 1 and type 3 fonts, screen output, file output, and printer output.

^+ V1593EPU DISK STAKKER V1.7
Double your hard drive capacity by installing EPU. After installing EPU to any Device (HardDisk, Floppy, Rad etc) every file which will be written to the device will be compressed & when any compressed file is read by any application it will be decompressed.

^* V1039HD INSTALLER (AB)
Bought an A1200 machine and are having trouble with your hard drive why not install it correctly.

^* V1136DISKSALVE 2
Repair your hard drive with this. recommended.

^+ V1326C: COMMANDS & LIBS
The C: and LIBS disk contains over 100 commands lie within the C directory. Over 20 LIBRARY's are within the LIBS directory. Use them for your disks. They can be used to spice the disk up in appearance and in usage.

^+ V0490MESSY SID II
once loaded will read MS Dos disks, Convert any text (asc) files on to an Amiga dos disk so that they can be loaded into any standard Word processor. The program will also convert the text back to your IBM disks.

^+ V1611SNOOPDOS V3.0
Log's all the dos/library calls and more when you run a program. This is handy for both the programmer and the beginner. Have you ever installed a program to your harddrive and then discovered that it will not run without a certain library but you don't know which?

^+ V1928VIRUS WORKSHOP V4.8
This is the one and only Virus Workshop by Markus Schmall. Now in the Version 4.8 . Test it!

^+ V0424ANTIFLICKER
A program to stop the Flickering when you use the Amiga in Hi res move.

^+ V1669TUDE V1.0
is a very extensive and easy way of degrading your machine for all sorts of purposes. It is useful for playing old game on A1200s for example which need kickstart 1.3. There is a GUI version included as well as a CLI version so most people will have no trouble using it. A highly useful tool for all Amiga owners. Good.

^+ V1523RELOKICK V1.41
ANOTHER(!) version of ReloKick. Galahad of Deal Crew did ReloKick 1.4, so I decided to improve on that!

^+ V1356NOERRORS V1.3
Its main function is to hide physical disk errors from floppy disks and hard disks, so these disks can then be used without DOS showing read/write errors.

^+ V0662DCOPY V3.1
Best PD copier on the Amiga. No new Features over 2 but has been updated with new code information.

^^ V1164(AGA) ASA FIX DISK
An entire disk full of utilities for those A1200 and A4000 owners out there who can not for the life of them get some of their favourite games or demos to work.

^* V1360WB2.0 TUTORIAL
There is a lot more options open to you than just playing games. In the chapters Files Explained & Menus attempt to explain the workings of WB2.as the manuals supplied with your Amiga.

^* V1242RE ORG V3.11
is a fast disk optimizer that can be used for floppy disks and hard disks. Supports new Kickstart 2.04 features including hard and soft links and High Density drives.

^+ V0885APRO ASTROLOGY V3.5
Astro_22 as released is a starter program which accurately calculates the position of the planets, cusps and zodiac positions to within 30 seconds of arc. I intend to increase the usefulness of the program to eventually cover all aspects of the subject which will appeal to professional as well as novice astrologers not wishing to pay 200+ for a decent package. Updated version

^+ V0488AMIBASE PRO II
This is the latest database program which is an update

^+ V0827REPAIR IT V2.01
An essential set of tools for recovery. Disk speed reports the speed of a selected drive. DiskSalv will try to recover as much data as possible from a corrupt disk. HDTool will install the OS3 disk caching and FFS to the hard drive of a lesser operating system.

^* V1661NATIONAL LOTTERY
This is a national lottery prediction program called Lottery Winner. It consists of a database system which can record the National Lottery results from week to week until it has sufficient data to make certain types of predictions or just a random guess. Good.

^+ V1679COP THE LOT
Lottery prediction/database which can store the previous lottery results and also select random numbers etc.

^+ V1771COURSE FORM
Like to put a bit of money on the horses? This utility allows you to enter the figures for the horses in a particular race, plus the course details, and then it will try to predict the winner of the race. Good.

^+ V1778LOTTERY CHECKER
is a great tool for checking lottery numbers. Good for office syndicates. Find 'A' Date is a database which stores and matches people up for blind dates. Sneaker is used to view and change binary files, technical users are always finding these programs useful.

^* V1836MRBACKUP V2.1.4
is a hard disk backup program for the Commodore Amiga family of computers. It provides a wide range of services to support Amiga file management and backup/restore of files to/from hard disk.

^+ V1837DISK DOUBLING V1.9B
This package allows you to create virtual partitions on your HD. Files stored in such partitions get automatically compressed and decompressed whenever you access them, in a transparent way.

^* V1838VMM V3.0
A virtual memory manager for Amigas with a 68040,68030 or 68020+68851 processor.

^+ V1932X-FILES GUIDE
The X-Files Guide disk is full of very usefull information if you are interested in the x-files. It contains over 674k worth of text, ranging from episodes 1 and 2 to the T-files transcript. It also has a survey you can fill in and send off to the author of the disk.

^+ V1949MORE HD INSTALLERS
This disk contains the latest installers for the following games: ABASE, Arnie 2, ATR, Bump 'n' Burn, Naughty-ones, Rise of the Robots, Sensible World of Soccer, Shadow Fighters, Lion King, MKII_PAFIX, Paranoi Stars, Rock'n Roll, Skimarks 2, Skeleton Krew, Super Stardust, SoftB3, Tools and Uridium 2.

^+ V1963VIRUS WORKSHOP V5.1
This version of Virus Workshop is as good as any of the others or even better. You can check every single file on there own or all together. If it finds a virus it will tell you what it is and exactly what to do to get rid of it. This is probably the best version of Virus Workshop so far and well worth buying.

^+ V1965BALLS
Balls is yet another lottery predictor program. It is actually quite good apart from the £5 fee if you want to get the registered version. It can predict random numbers or numbers from pre-entered numbers of upto 72 weeks earlier. A well presented lottery predictor, if your into all the lottery hype get this.

^* V1968AQUARIUM SIMULATOR
3d Aquarium Simulator (uses MUI2.0). check it out.

^+ V1982SCOUT V2.1
Scout is a tool that allows you to monitor your computer system. It displays many different things like tasks, ports, assigns, expansion boards, resident commands, interrupts, etc.

^+ V1983DOPUS UTILS 2
This is the second selection of utilities for use with the most popular Amiga Disk utility Directory Opus.

^+ V1997LOTTERY PREDICTOR
Another lottery prediction system. This latest addition has a few added advantages over the other available. For a start this one uses intuition fully so it multitasks and it uses only a small window on your workbench. Also it looks very nice! The added touch of the lottery symbol makes all the difference. The best lottery predictor yet.

^+ V1998AMIGADOS GUIDE V1.5
A very handy program for those who want to learn more about Amiga DOS or those who simply want an easy reference for commands etc.. The program consists of an easy to use point and click system with a index.

^+ V1999COP THE LOT PRO
Yet another lottery program. This one will only generate random numbers, there is no option to actually make any sort of calculated prediction. There is also a Numbers drawn database and a My guesses database to help you keep a record of the numbers you have been choosing.

^+ V2000BACK DOOR V6.0
This is the latest version of this now quite well known game cheat database. There are cheats and tips for hundreds of different games including a lot of recent titles. There are even long entries for games such as Dune II, which is a tactical game, detailing good methods of play.

^+ V2001NATIONAL LOTTERY
This program is more than just a random number generator. It uses uses a special History formula with Chaos Theory to produce a more accurate prediction.

^+ V2004LOCKUP V4.0
is the newist version of the old utility Lockup which basically allows you to Lockup your hard drive with a password to enter and get it going again.

^+ V2005SHAPE SHIFTER 3.2
is a multitasking shareware Macintosh-2 emulator for the Amiga. It allows you to run mac software without additional hardware. New updated verion.

^+ V2014MESSY SID 3.0
this is the latest verion of which will read and write PC Floppy disks 720k or 1.44 if your drive can take it.

^+ V2015MOVIE MAKER 2.0 (AB)
have you ever wanted to create your own movie and see it flourish in the Oscars, then nows your chance.

^+ V2026ROUTE PLANNER
Highway trip planner. Requires MUI 2.2

^* V2051DOPUS 5 EXTRAS VOL 1 (AB)
This set of disks contains a selection of new archives for use with DOpus v5.0. ArcByName - Arc-script for Dopus5 and LhaLZX V1.0. Dopus511 - Patch for Directory Opus 5.0 & 5.10 -> 5.11. DOpusLhARexx2 - Handles LHA archives from DOpus. DOpusReq - DOpusReg.lha: Opus 5.11 fix for AFS problems. DOpus CleanRAM - DOpus AREXX script for cleaning ramdisk. LhALZXDirDOpus5 - Modified LhaDir.dopus5 to work with lzxdir.dopus5. player5_0opus5 - CDDA & soundplayers/saver for DirOpus5. xpkdopus - XPK support for DOpus5 (ARexx&Executable).

^* V2060GFFT SPECTRUM ANALYZER
GFFT Version 2.03 is the update to GFFT version 1.12. The GUI is improved considerably (allows any font and screen color setup, has progress indicator, uses tooltypes, etc.), more features are added, bugs are fixed, and a new SpectrumAnalysis.guide is included (with lots of pictures) to explain spectrum analysis.

^* V2072VIRUS CHECKER V8.04
Best virus killer on the Amiga to date. Updated version with bug fixes and updated virus information.

MWB& W/B

^* V1043SUPER DARK V2.1A
A screen blanker with some special features. It is similar to the After Dark screen blanker in the PC and Mac worlds. Features include a lot of different screen effects, a screen locker, and more.2

^+ V1964COLOUR WORKBENCH
Allows you to basically change your workbench screen to purple or whatever colour you fancy. It also changes the font from the usual workbench one to one that is really small. There are icons which allow you to change the one's you already use to some they have. They have also included some backdrops for you to use.

^+ V1968STAR TREK BACKGROUNDS
Heres some new backgrounds for workbench all based around the Star trek T.N.G series.

^^ V2045ICONIAN v2.96
OS3.0 icon editor, NewIcon support.

^+ V2048CALC
Arbitrary precision calculator/language

^* V2053BLITZBANK V1.53 [1.5MB]
is a very powerful personal accounts system and is ABank compatible. 1.53 fixes two important buggs of the version 1.52 I couldn't wait for having new features because these buggs were really too annoying.

^+ V2061BERZBENCH V1.1C
Probably the best patterns for WB

^* V2062ICONOGRAPHICS V3.0
is a collection of eight colour icons for Workbench 2 and 3. All standard system icons are included, with many additional icons (PD/Shareware programs, different types of data, custom drawers, and ToolManager dock icons). This release includes about 350 high quality icons. Every icon contains an alternate image that is displayed when the icon is clicked on.

^^ V2063MWB IMAGEDRAWERS FULL COLLECTION
This is a full MWB image drawers' collection. I added 42 new drawers since the first release (MWBDrws_474). I was tired of wastin' time every time I was searchin' for a particular image drawer, so I collected all the drawers I found on Aminet in a single collection. I hope this could be useful to someone else, but if you still prefer searchin' through all Aminet files... good luck!!

^* V2064100 USELESS PATTERNS
102 background patterns in 2, 4, 8 and 16 colors.

^^ V2068JTE MAGICWB ICONS 5/6/7/8
JTE MagicWB Icons 5 - This package includes 90+ new MagicWB icons. JTE MagicWB Icons 6 - This package includes 37 new MagicWB icons, 1 WB pattern, 2 TMbrushes and 96 lame Pattern icons. JTE MagicWB Icons 7 - This package includes 60 new MagicWB icons. JTE MagicWB Icons 8 - This package includes 30+ new MagicWB icons.

^^ V2069NEW BREATHTAKING PATTERNS FOR MAGICWB
This package contains 11 photo-realistic backgrounds: Beach.png, BricksGrey.iff, Clouds.png, Confetti.iff, Mountains.png, Pebble.iff, Storm.iff, Stucco.iff, Terrace.png, Thunder.png, Valley.png. You need a PNG-datatype and a program to adjust the first 16 colors of your Workbench to the right colors.

^^ V2070MWB ICONS, PATTERNS
A collection of really nice MWB compatible stuff. Guide included.

PRO-SOFT

* We have set up a Special Offer for you.

If you want more details on any of the following disks or want information / prices for the registered versions ring PRO-SOFT on (0973) 702718.
(a) Each shareware version below comes with a £5.00 discount for the registered version.
(b) Each PRO-Soft disk can be purchased for £1.00 each or £4.00 for all 5 disks. (Please note our min order £10).
(c) Order over 20 normal PD-Soft disks and get all 5 Pro-Soft disks "FREE-OF-CHARGE".

^+ V2073PRO-LOTTERY 96
Don't believe that lottery prediction is possible? Have a look at Pro-Lottery, and you might find that you begin to think otherwise! It DOESN'T pretend to guarantee you a jackpot win, but it does genuinely improve your chances of regular small-medium wins. Ideal for syndicates or individuals.

^+ V2074PRO-FOOTBALL
An extremely easy to use, yet powerful prediction system for use on both football pools and football fixed-odds. Evaluates each match, and presents you with the most likely outcome. (Amiga Shopper Star-Buy, Amiga Format Selection Of The Month)

^+ V2075PRO-GAMBLE v2.2
An easy to use, yet surprisingly accurate, horse race prediction system. Requires little racing knowledge - just any daily newspaper and 20 minutes! Generates predictions in a useable format (eg: Placepot), and can even calculate your winnings for you!

^+ V2076PRO-GREYHOUNDS
As Pro-Gamble, but for the dogs - Very user-friendly.

^+ V2077BOOKIE BEATER
Ever been aware as to which selection in an event you should back? Bookie Beater allows you to bet on more than one, safe in the knowledge that you'll make the same profit no matter which one wins! Can be used for any 'bettable' event.

EMULATORS

1+ V0617A500 PLUS EMULATOR
Have amiga 500 and want workbench 2.0 then just install this disk onto your floppy 1.3 version of workbench or your HD for complete WB2 compatibility.

^* V1178KICKSTART 3 EMU
Kickstart 1.3/3.0 emulator and decibel patch program will give you the option to have kickstart 1.3 or 3.(as used in NEW Amigas) in your Amiga. This is much enhanced over the version that was given away free.

^+ V1336THE BBC EMULATOR
Contains commands to allow existing files to be transferred from a BBC with DFS by means of a serial cable.

^+ V1659MSDOS/AMIGADOS V2.3
This is a very interesting utility which should be useful to anyone who uses both PCs and Amigas. The tool allows you to create a directory on which you can store MSDOS commands and then they can be used through the shell as if they were AmigaDos commands. Great.

^^ V1868PC TASK V3.1
is the first and only software 80286 emulator for the Amiga range of computers. Transfer files between your Amiga and MSDOS. Compatible with MS Windows 3+

^^ V1931ZXAM v2.0
The latest Spectrum Emulator available. Basically it allows you to run Spectrum software on your Amiga. Requires the AGA chipset but does require WB3+ and a 68020 CPU or better

^* V2059FRODO V2.0
Frodo is a multitasking freeware C64 emu for the Amiga. OS2.1 and a 68020 (or better) are required, as well as copys of the original C64 ROMs, which are not inc.

OFFICE & PRINT

^+ V0875HOME BUSINESS PACK (6)
QED, Text editor. Text Plus 2.2E, Word Processor. AZSpell, Spell Checker & Dictionary. BBase, A Database program. DATA EASY, Another database BizCalc, Loan calc. LCD.Calc, SPREAD, Spreadsheet. Budget, Personal Finance. UNITS, Various conversions. CLERK, Small business accounts. SUPERDUPER, FLASHERCOPY, Copier's. TYPIST, Typing Tutor. BOOTX, Virus Killer. SYSINFO, System analyser. DOSMANAGER, Directory program. FONTLIST, FONT MANAGER, Utilities. 'PRINT STUDIO, Printing Tools. (6 disks)

^+ V1114PRINT LABELS UTLS
Includes various programs like DOC DUMP v2.1, ENVELOPE PRINT v1.20, INLAY MAKER v1.4, MC MASTER v1.1, BANNER v1.0, LABEL PRINT

^+ V1278PRINT A CARD
Want to print a business card or any other type of card then this is the software for you.

^+ V1222PANASONIC STUDIO
The PanaPlus driver is a software for controlling printers with the Commodore Amiga personal computer.

^+ V1236INVOICE PRINTER
invoice printing that we help aid any small business.

^+ V0928LITTLE OFFICE
Its the all rounder do everything, all knowing, all seeing?? Well lets just say its very good.

^+ V1179FILE-O-FAX
was designed to enable computer operators to be able to work at their leisure without worrying about forgetting those important meetings,what they had to do on any particular day or locating business colleagues tele no's.

^+ V1467AWARD CONSTRUCT
A very handy tool for creating your very own awards and certificates. There are many styles, fonts and graphics to choose from, could also be used to make small posters, signs or leaflets. Easy to use and very effective.

^+ V1089PRINTER DRIVERS HP
Deskjet 550 colour driver, Deskjet 500, Deskjet 500c, Ricoh HP1200 400dpi, Canon LBP, Canon BJ300, BJ130, BJ10e, Canon_48, Canon PJ 1080a, HP Paintjet.

^+ V1278MAIL-O-DEX
An excellent way to keep names, addresses, Phone numbers, comments etc and then print out labels loads of them in 1,2,3 and 4 columns.

^+ V1044FANCY PRINTING
BANNER v1.4, GRAPH PAPER v1.2, DISK PRINT

^+ V1357CITIZEN MANAGER
The Citizen Print Manager has been designed in conjunction with Ioensoft.

^* V1051EASY CALC PLUS
is a spreadsheet designed to be both easy to use and fast. If the program looks nice, that wouldn't to be bad either. Unlike other software where the author writes the program first, then bolts on a help system, I have designed the help into the program from the beginning.

^+ V1184AMIGA DIARY
Amiga Diary is a mouse driven diary capable of storing all personal events and the perfect solution to all those forgotten birthdays, missed appointments etc.

^+ V0366600 BUSINESS LETTERS
Over 600 Standard business letters on this disk. Can be used as they are or insert parts into your own letters

^+ V0782FORMS UNLIMITED
Designed to help you design and print different forms. There are a wide number of options and controls which allow you to draw simple boxes, lines, etc in order to create forms for many different purposes. Good.

^+ V0390AMIGA FOX DTP
The first amiga PD Desk Top Publishing program. Excludes various extra features over the old Word processor, Text Editor, Graphics editor and loads more.

^+ V1680AWARD MAKER 2
This is a very good tool for the creation and printing of Awards and certificates. There are hundreds of types to choose from then you can choose a font a border and also some of the text etc. Very good results.

^+ V1751PRINTER DRIVERS
CANON600 v2.0, EPSON FX 850 v1.0 & LX 800, HP4DRIVER v35.8, HP4LSETTER v2.01

^+ V1858DB V2.5
Small/fast database program that I wrote after having tested numerous other PD database programs and always found something lacking or irritating me. They might have dozens of features not found in db, but they lacked font sensitivity and a standard GUI look & 3.0

^+ V1862INVOICE DATABASE V2
Intra is a rather simple, but therefore easy to use database program that was especially designed to deal with invoice information. Everybody, as we like it

^+ V1865LEGAL FORM GENERATR
Generates custom do it yourself legal forms. Database includes forms useful for EVERYONE, plus specialised forms for real estate, small businesses, landlords, employers, etc. Can save you THOUSANDS.

^+ V1995BEGINNERS TYPING TUTOR
This is by far the best typing tutor for years I have seen on the Amiga. It is worth every single penny. It consists of two games, one is called the letter game and the other one is called the word game. On the word game you have to type a word in before the timer runs out. A must for all typers.

^+ V2003REM DATE V2.0
Rem Date is a calender, reminder and filofax all in one. I found it quite good to use and would definetly buy the registered version which is availble from the author.

^+ V2019TEXT ENGINE v3.0
Allows you to make your every own letters and documents then print or store them on disc.

3D & GRAPHICS

^+ V1247TEXTURE MAPS (ABC)
A collection of textures for use with the any program that will take high res textures.

^^ V1554IMAGINE BUDDY (AB)
Here's some features of the new interface: Draggable and Sizeable text and index windows - Button Gadgets for the Search and Move Functions Improved Searching The text is now positioned at matching hypertext links and all matches are highlighted for visibility.

^* V1229MAIN ACTOR V1.53
This is an all round animation utility that will create, playback, time and edit animations of any length or format (including graphics cards). Very good. (AB)

^* V1811IMAGESTUDIO V2.0 (AB)
is written for the casual graphics user who wishes to convert or manipulate various graphics formats on a modest Amiga system. There are several commercial offerings available, however the casual user is paying a lot of money for many facilities and options they would probably never use.

^* V1891IMAGEDESK V1.6
is a program to catalog picture directories by generating small representants of the pictures, so called thumbnails.

^+ V1907POVRAY RAYTRACER
Renders in a window on a public screen (even Workbench) with colour sharing, simple HAM/HAM8 support autodetects Cybergfx Screen and renders in direct Colour (15/16/24Bit) if possible.

^+ V1916XFIG V1.2
This is an Amiga port of an X11 structured drawing tool that lets the user interactiely create and manipulate on objects such as lines/circles rectangles/splines/text and other elements. Xfig can produce output in several different formats. Encapsulated PostScript, IBMGL (HPGL), Pic, PicTeX, LaTeX, box, epic, eepic, eepicemu, textyl, tpic, X11 Bitmap, X11 Pixmap and gif.

^+ V1922REAL 3D V2.X OBJECTS
Objects are pretty large in size, expecially the 4 cylinder engine, you might run out of memory pretty fast. My Amiga 4000EC30 + FPU is now equipped with 18MB RAM, and I can now raytrace all of my objects.

^+ V1925SPACEDOCK STATION
* 1.3Mb, so you'll need a healthy chunk of memory. * No Slicing was used in modelling, to keep things as small as possible. * Space Doors open using the new States function. * Marquee of Space Door lights.

^+ V2042RAY STORM v1.11
Fast raytracer with many features

^+ V2047SVIEW v5.10
SuperView V5.10 + Library 12.2

^+ V2057IMAGINE OBJECTS 1 (AB)
Contains a selection of objects and extras for Imagine - BLOBS_PRJ - Project to generate a blob animation. DAN_CLASSICAL - An Imagine 2.0 model of a classical guitar. DAN_ELECTRIC - An Imagine 2.0 model of an electric guitar. EAGLE_OBJECT - Eagle Freighter object for Imagine. MANGABABESDEMO - Sexy female human 3D models by Tonwoof. PZKPFWIV - Imagine Object of WWII Mark IV Tank. T65_X_WINGFULL - Large, Detailed Imagine 2.0 X-Wing object.

^* V2065IFF256 720*480, CHIPS, DISKS & FLOWERBED
IFF256 720*480, Chips, Disks & Flowerbed - Use as backgrounds with Scala or Euro-demos where text is put on top of a background/wallpaper etc.

^+ V2066IFF256 720*480, GRAVEL, JEANS & WOODFENCE
To use as backgrounds with Scala or Euro-demos

^+ V2067IFF256 720*480, PENNYS, SAND & SQUARES
To use as backgrounds with Scala or Euro-demos

COMMS

Why not check out our BBS (0181) 2510078 or email - coming soon web pages.

^* V1745TERM V4.2 [030]
latest version of this very well known comms terminal program. Version 4 has even more features and although it is not for beginners it is probably the best available.

^+ V0979NCOMM V3.0
Is a comms program based on Comm v1.34 with lots of very nice enhancements. Has new functions over v2.0

^* V1722AMIGA TO PSION S3/A
is a implementation of the Psion link protocol which is e.g. built into the Psion S3/S3a ROM. It's main purpose is to provide nice versa nfs like file access.

^+ V1882FINALFAX 96
This is one of those arexx macros which are very handy for automating the more tedious jobs on your Amiga. This one allows you to select options for GPFax from within Final Writer. That means that there is no need to switch from Final Writer to Workbench.

EDUCATION

^+ V1079KEYBOARD TRAINER
This program only concentrates on basic keyboard skills, and is in effect, still a Beta Version, I think you will find it a vast improvement on most so called tutors.

^+ V0783AMIGA BEGINNER
You asked for it! A tutorial for the beginner on using your amiga! Covers the CLI and Workbench, its great for learning about the Amiga. Also contains numerous beautiful 16 colour icons for WB v2.04.

^+ V1845DPAINT 4 BUDDY (AB)
Will teach you how to use Dpaint 4. It works by running along side the well known paint package providing hands on demonstrations of the various features. It is a very good way of learning a program so you want to learn DPaint then this System is one of the best ways.

^+ V1881AMIGATRAINER
very powerful & flexible program to learn foreign languages. You enter the words yourself, so they aren't related to any special language, school or book. every word there are 2 additions to enter.

^^ V1897GEOGRAPHICAL ATLAS
AmiGlobe is a geographical atlas that allows you to navigate in the world map, zooming everywhere, get country data, etc. Requires 2Mb of RAM. (AB)

MUSIC

^+ V1269THE OCTAMED TUTOR
Welcome to the Octamed Tutor, a simple guide through the basics of this excellent music program.

^+ V1207OCTASTUFF
Welcome to OctaStuff, a disk based around work with OctaMED 3 and 4.

^+ V1882ART OF NOISE TRACKER
NEW tracker, NO ProTracker Clone!, 8 channels, fm synthesis, drum sequencer, wave table synthesis

TIPs, CHEATS

^+ V1416EYE OF THE BEHOLDERS
This disk contains a selection of utilities and software for Eye of the Beholder II, like end of level saved game file, Eye of Beholder 2 special quests explanation, EOB2 Character Editor, Eye of the Beholder Solution, GIF pictures of all 12 levels in Eye of the Beholder.

^+ V1363RPG. ASSISTANT
AD&D play time dungeon master's assistant. The version you see here is a pre release of the program in AmigaBASIC. Right now it will take characters in a text file and load them in to be displayed at will. It also rolls dice and has a handy dandy encounter screen that will keep track of monsters & their current HPs

^^ V1687(AGA) FIXES VOL 1
This program disk will help AGA machine users get some added compatibility out of their older software. Don't forget many supposedly incompatible programs will work on the AGA machines by suitable adjustment of the boot options. (Hold down both mouse buttons).

^+ V1773ACTION REPLAY CHEAT
This disk has on it a text file which contains loads of codes for those people who have action replay devices. There are cheats for hundreds of games. Good.

^+ V1848DIY REKO
This disk has on it an Arexx macro which, when used in conjunction with ImageFX, will make reko cardsets for Klondike AGA almost automatically. Also included is a detailed Amiga Guide document explaining everything.

^+ V1488GAMES HD INSTALL
This disk provides you with the software needed to install certain games onto your A1200. The games that this disk can install are BodyBlows, Goal, Lemmings 2, Superfrog, and Walker. Could be very useful.

^+ V1862HD GAMES INSTALLER 2
Contains a variety of hard disk installer's for a few well known commercial games. These games are as follows. AlienBreed 2 AGA, Jungle Strike, Assassin (Special Edition), Body Blows, Goal, Ishar 2, Zool 2 AGA, Ruff and Tumble, Body Blows 2 AGA, StarDust, Super Frog, Walker, Rise of the Robots, Bubble and Squeak, ElfMania, Aladdin AGA and Mortal Kombat 2. Great.

^+ V1886NEW HD INSTALL
Hard Drive Install scripts for 3 games, Beneath a steel sky Flashback King's Quest VI. New updated version (small bugs fixed from last version).

^+ V1988DUNGEON MAPPER V0.3
This is the first version of something called Dungeon Mapper. It will work on Workbench 2+. It allows you to design your own maps for games like Dungeons and Dragons which can be very usefull. It also has Tetris on it if you boot it from Workbench.

^+ V1994CHEATS COMPILATION
This disk is a demo which gives you a taster of what you can have if you buy the registered version. The demo gives you a choice of about 15 games to chose from.

^+ V2040SW CHEAT v4.5
Over 950+ game hints/cheats.

^+ V2041F1GP Ed v3.03
Formula One Grand Prix / WC Editor & F1GP-Ed non-english translation files & Track data for GPDisplay

^+ V2056TREK-THE GUIDE V1.6
Trek-The guide is a complete Star Trek Database. It contains a listing of all the Trek series' complete with an episode synopsis, original airdate, Director and Writer Credits and Guest stars. It also includes a section on very rare promotional press kits and values of them. There are cross references to episodes with you favorite aliens, time travel, and much more! Much of the information was supplied by Paramount. The full version (7 disks Shareware) contains over 170 rare promotional pics. Sorry. Contains the 1st seasons of the Trek series.

VIDEO

^+ V1196DESKTOP VIDEO
Dot Matrix Stroller, Is a video titling program intended for use in adding scrolling captions to video's. Flood Effect loads an IFF picture and displays it with a Offload effect0 so that it floods the screen.

^* V1156VIDEO TITLER
Generates professional looking TV titles and credits for your own video's.Outstanding abilities are very smooth scrolling, colour slides (AGA support)and usage of colour fonts. Limited demo version only.

GAMES

^^ 4431 BEST AGA TETRIS
Best pentamino tetris. graphics, musics, 100% assembler

^+ 4434 BLACKDAWN v2.1
3-level Dungeon Master style Alien Breed:- charge around the maze levels, shoot lots of aliens, find the lift & move on. but do it in 1st person perspective view.

^+ 4442 SCORCHED TANKS V1.85
The awesome artillery tank game. This one contains loads of goodies like 70 weapons and 13 shield types as well as new goodies.

^^ 4449 PSSST
This is a 1990's version of the old Spectrum Classic PSSST Main features include: - 256 Colours. - Real Time frame rate. - No C code !!!! (I Hate C) - Nice end of game sequence. - Three Levels of play (Slow, Normal, TURBO NUTTER), No Spam.

^+ 4451 LAST LAP
is a car game for one or two players. It is excellent in two player mode. There are about 16+ different tracks for you to race around. Some of them are quite easy at the start but as you go on they get a lot harder. On the tracks they have these squares which if you drive over it shoots you on even faster they you are already going.

^+ 4452 SPELL TRIS
Tetris style game but the main difference is you use letters instead of just shapes.

^+ 4454 BATTLE TRUCKS
is a one or two player game in which you choose your own truck and then buy it. You can add nitros, new motors or even buy a brand new truck with your winnings from your races.

^^ 4457 SCREECH V1.5
This demo ame offers you the oppartunity to run anything smaller than your car ever! Improved graphics are on the way (whoopee)!. Req 020's with 1MB chip ram and .5MB fast ram or 030's with 1MB chip ram or 700kb chip ram and 300 kb fast RAM

^+ 4459 SUPER EARTH DEFENSE V1.5
is a classical shooting game.

^+ 4462 XASTEROIDS
This is a 'port' of xasteroids, an X11 application. No X11 server (DaggeX or others) is needed to run the program! This program is using libX11 by Terje Pedersen! You don't need this either since it is a link library that is compiled into the binary.

^+ 4463 BOULDERDASH 64
A complete OS-friendly (multitasking) Boulder-Dash with C64 graphics and sounds. 68020+, AGA only (DblNTSC required), KS V39, asl.library, powerpacker.library. Smooth scrolling 127%!) original C64 levels+sounds, Cheats, Joystick and keyboard control, User definable games and levels, two player game.

^+ 4464 BREAKIN' BRIKS V1.0
Great version of the very cool Breakout type game. For AGA Amigas only. Works with 2Mb CHIP memory! - Improved performance with FAST mem. Great GFX.

^+ 4465 CHAMPIONSHIP MANAGER EDITOR V2.4 68020+
This is the first public release of Championship Manager Editor (ChEd). It was written because we had played the game to death and were looking for a way of putting some interest back into game.

^^ 4466 DPACMAN AGA
15 levels and 5 bonus levels. The registered version has 50 levels and 15 bonus levels and extra gfx and other improvements. Features: Can use external Protracker modules and XPK for packed modules.

^+ 4467 JOUSTER 3
If you haven't heard of the good old favorite, Joust, then you're a pretty young or fairly old dude. :) Anyway, this game brings Joust to the Amiga and also has improvements such as powerups, etc. You can even have a pterydactyl as a steed. For 1 or 2 players. Check it out.

^+ 4468 PATCH LEMMINGS 2 TO RUN FROM HD
Patch to allow Lemmings2 to run from hard drive.

^+ 4469 CRITICAL HIT
is a highly detailed fantasy combat game, which re-creates tabletop war gaming on the Amiga (requires 1 MB RAM). A strategic war game with excellent graphics, 3 D landscapes and a wide variety of fantasy combat figures and scenery - Campaign and map designer.

^+ 4470 PANIC SOCIETY V1.1
Hillery & her friends have taken total control of the world. as one of some 10 million people left, scheduled for transfering to the country of your origin. But, someone has tampered with your environmental control causing you to awaken from a mind controlled state.

^+ 4471 BRATWURST
A Rokete-like game for two to four players. Automatic zoom keeps all players in view in the least possible area, vector graphics.

^+ 4472 CULTURE TANK
A single screen tank combat game with up to 6 tanks, which may be human or computer controlled. Team or all-against-all modes. 3 types of weapon including missiles and flamethrowers.

^+ 4477 WIZZYS QUEST
is the best PD platform/puzzle game I have EVER played, so despite its bagginess (see below) I thought I'd upload it to Aminet. Wizzys Quest has 50 levels, getting progressively harder.

^+ 4478 BIACCOARCHIVE! V1.0
Nibbler arcade clone by Maurizio Facca.

^+ 4479 BOB THE AMAZING LEMON
Amazing Pac Man clone which features a level editor, changeable music and many different wall and floor types including appearing walls, ice and water.

^+ 4484 REBELLION
is a very good shoot em up. You are a little spaceship which travells around space trying to pick up little aliens and destroying all the missiles that are coming at you.

^+ 4485 LEGEND POUNDS ISLAND
Here we have an adventure game. Half graphical, half text based this game is played almost entirely using the mouse. Sprites backdrops with objects to examine or use

^+ 4486 MASH
An excellent game. You choose to control either a Spud (a potato on legs!) or a Tank. You then need to tackle a whole load of obstacles in order to get the enemy on the other side. Great graphics, great sound an allround classy.

^+ 4488 PSYCHEUAL
An Alien Breed clone. You are a bloke with a machine gun who has to run about each level shooting other people and aliens. The level graphics are good and show a lot of detail plus the gameplay is not too easy either.

^+ 4552 H.E.R.O
Something is going to happen. A big interactive event is going to take place. We are about to release a game which we had to miss for a long time now (too long if you ask me!). Coming soon is an Amiga version of the old Activision game H.E.R.O. And that's not all. You can be a part of its release.

^+ 4553 ARMORED COMBAT EDITION
Full version of pete w storoteklijS mangled fenders: Armored Combat Edition! Drive tanks from six different countries in a demo-derby game with weapons! This FULL VERSION is freely distributable, as long as all files are intact and present. Uses Memory Conservation Protocols to make sure the game will run on low memory

^+ 4554 BLOODFEST
Captive & HiredGuns style 3d adventure.

^+ 4555 TRAIN DRIVER SIM V1.6
Profile chart generated in real time showing next 10 miles - Fog, in addition to Dry/Wet - visibility 300 yards, very slippery rail - Data updated and more crossovers added between Crewe and Carlisle - Key press detection improved - Now creates timings for any custom train; If, on the Startup screen, you type in a different Code from the built-in trains in the Save drawer, and then set all other parameters, and then click OK, the program will look in. Trains/ and see if a file exists for that train.

^+ 4556 ZHANDULINHELMI ADV
A Finnish text adventure with some graphics and athmospheric music

^+ 4557 POWEROIDS V1.2
Multitasking Asteroids, raytraced gfx, 1-4 Players.

^+ 4558 INTMERCS
Rebelstart type strategy game. Requires 2MB. For one or two players. Complete with four scenarios.

^^ 4559 WORMS MAPS
These are a buncha maps me and my flatmates made for the amiga version of worms... Descriptions as follows - TUNNEL.WRM Underground warfare. ISLANDS.WRM Ninja Rope-tastic!. SCREAM.WRM Version of pic i found on AMFormat Gallery. TRIPINTOWAR.WRM Wierd, spacy theme, with shafted palette (Was called NECROMUNDA.WRM in previous release). NECROMUNDA.WRM Ohh..You'll LOVE this one. BEN2.WRM Another shafted palette. But kewl though.

^+ 4560 DUNGEON HERO
Fantastic RPG like Dungeon Master

^+ 4561 ELDRITCH V1.35
Top-view adventure hack-and-slash.

DISK PRICES

MINIMIUN ORDER 5 DISKS

5 DISKS FOR £10 + £1 P&P
10 DISKS FOR £17 + £1.43 P&P
15 DISKS FOR £21 + £1.43 P&P
20 DISKS FOR £25 + £2.45 P&P

CODE REFERENCES

^+ Works on all machines
^* Req Workbench 2.0 or above
^^ Req Workbench 3.0 or above
(ABC) Product has ABC disk (ie, three)

Pay By Credit Cards, Cheques, Postal Orders, Euro Cheques & Switch * All Prices include VAT * All phone Orders sent By 1st Class Post the Same Day

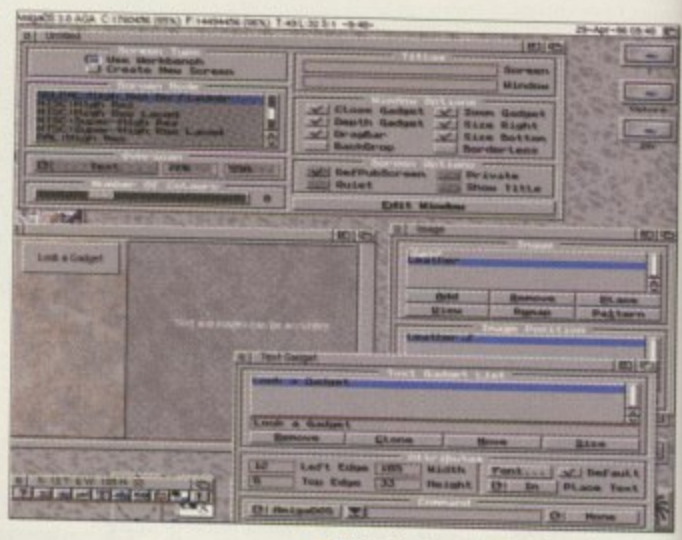
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Building blocks

Making colourful menus has never been so easy with Nucleus. **Neil Mohr** takes a look



The Nucleus interface is straightforward and simple to use

Nucleus is a program that allows you to make graphical interfaces for any purpose you want. It describes itself as a menu designer because it allows you to create anything from a basic program launcher that you can leave on your Workbench to a graphically rich menu for a slide show or presentation.

Two aspects in Nucleus' favour are that it's cheap and is unbelievably easy to use. From the main program window you can set how the menu should appear either on the Workbench or its own screen. From here, hitting the edit window button will open a blank window. You can now add buttons, pictures, borders and image buttons just by pointing and clicking where you want them to go. It's as straightforward as that – you could have a test Nucleus menu up and running in a matter of minutes.

Any of the buttons can then be assigned with either an AmigaDOS command or script, an ARexx program, or one of the three internal commands that quit, iconify or flip Workbench to the front. This allows you to easily create program menus or slide shows with a minimum of fuss. To then create a standalone menu you must save it off as an executable program, and if you have added any graphics these are all contained within the executable. A basic menu with just text buttons, the sort of thing you might use as a program launcher, comes in at around 8K, perfect for putting in your WBStartup drawer.

The only major drawback with Nucleus is that you cannot have menus in menus and, therefore, you cannot have a button linked to another built-in menu. If you want to do this you would have to set up a button to run another Nucleus menu which is not quite so elegant a solution.

Nucleus is a great program. Apart from my small complaint about the colour remapping I cannot fault it. It is so quick and easy to use – all you are left worrying about are the graphics you want to use, if any. Once those are done the actual interface will take a matter of minutes to set up. An absolutely fabulous application.

GRAPHICALLY SPEAKING

Beyond just allowing you to add boring old buttons, Nucleus has the ability to load IFF graphics which you can then apply to various parts of your window or screen. Images can be used as background patterns, the same sort of thing as Workbench patterns, or standalone images that you can position anywhere on the screen or window.

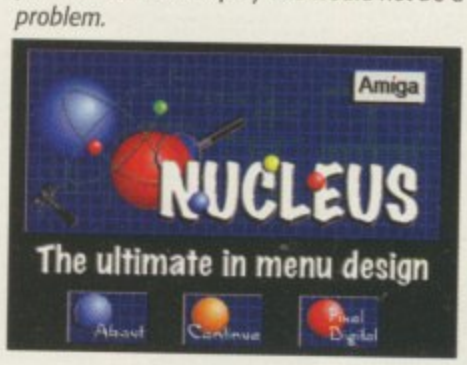
Along with that you can also add image gadgets which allow you to apply images to buttons for both their selected and unselected modes. Using image gadgets allows you to create more impressive looking front-ends for presentations or menus.

This very handy feature of Nucleus is not without its problems. As it allows you to import lots of individual images for use as gadgets or backgrounds, you can go a little mad and end up with lots of different images, all with different palettes. Nucleus does have a remap function that does its best to match the image to the current screen colours, but even on a 256 colour screen you can quite easily run into palette problems.

To get around this you will have to do a little planning before you go ahead and start creating a front-end. Possibly the simplest way would be to design your menu screen in DPaint or Brilliance, drawing the buttons in place so when you import the entire screen you can mark out the buttons that are drawn on the screen with 'invisible' image buttons. If you don't do this you will have to make sure all your buttons have the same palette.

It would be nice to see a little more intelligent remapping of image and screen colours. Currently, Nucleus allows you to 'grab' either the screen's palette or the palette from an imported image. This, however, simply overlays the images palette on the existing palette so you lose all your current colours, and the remap option just tries to match the image colours against the existing screen colours.

This does not stop Nucleus being any less usable – it just means you have to be a little careful when importing graphics. Now if you had a 24-bit display this would not be a problem.



As long as the palette matches, you can use as many graphics as you like

Bottom line

REQUIREMENTS

RED *essential* | **BLACK** *recommended*

2.04 Workbench

1 Mb RAM

PRODUCT DETAILS

Product	Nucleus
Supplier	Digital Software
Price	£8.99
Tel	0151-259 4017

SCORES

Ease of use	95%
Implementation	85%
Value For Money	98%
Overall	92%



Daily planet

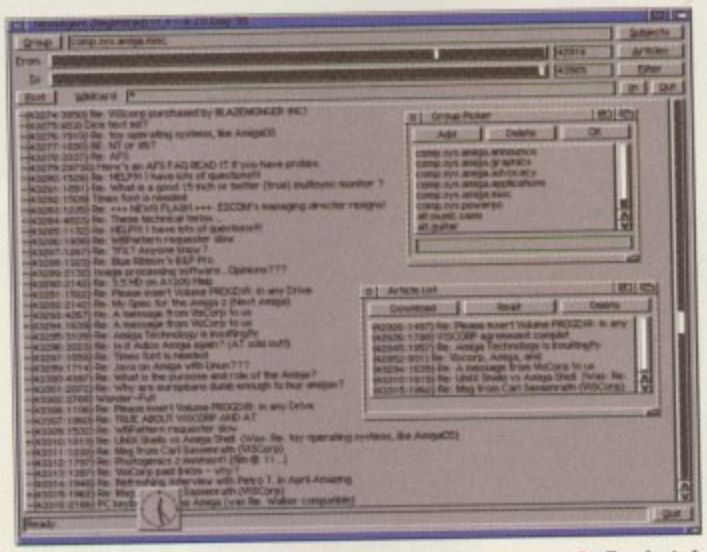
The third part of **Neil Mohr's** unofficial Internet series takes a look at newsgroups

Newsgroups can be thought of as large discussion groups conducted through people posting questions, ideas, points of view or replying to previous postings. To help things along there are many 'discussion' groups known as newsgroups, the name of the newsgroup describing what it is about. The naming system takes a sort of hierarchical directory scheme, so a rough break down would be:

alt.*	Alternative discussions
comp.*	Computer-related groups
rec.*	Recreational discussions
sci.*	Scientific subjects
misc.*	Information that doesn't go anywhere else
soc.*	Social issues
talk.*	General discussions
news.*	UseNet groups

It is hard to see from this that there are well over 15,000 different newsgroups out there, around a quarter of which are covered under the alt. section which contains newsgroups devoted to every subject under the sun.

Unfortunately, at the moment there is not a single decent news reader available for the Amiga. The ones that are available tend to do only one thing very well and are then lacking in other areas, so I find the best solution is to use two programs depending on what you want to do. I suppose it should be of some comfort that even Netscape's news browser is not perfect, which is surprising considering all the hundreds of man hours that must have gone into it.



For batch downloading with Tin and on-line reading NewsAgent is a good choice

NEWSAGENT

With any program, you want it to be straightforward and easy to set up and use, and NewsAgent is almost that. You can find the NewsAgent1_3.lha archive in the comm/tcp directory on Aminet. When you extract it there is a good old installer script that will copy the main program to the AmiTCP:bin drawer, and a preference file to the UULib: directory. You should start AmiTCP before installing because it will set all these assigns for you.

Before using NewsAgent you need to configure the preference file to your own needs. It is only a text file so you can use any text editor and if you have installe NewsAgent the preference file is *UULib:NewsAgent Defaults*. Most importantly, you need to change the **HOST** entry to point to your Internet provider's news server address – for example Demon's is news.demon.co.uk, and you should also add the line **XOVER** at the end of the file. This allows NewsAgent to get some extra information about the news articles, but does not work with every news server.

In use, NewsAgent can either be an on-line reader or a batch downloader. It is very efficient as an on-line reader – you can quickly select a newsgroup by either entering its name or, as NewsAgent remembers all past visited newsgroups, select one from the newsgroup list. You can then select exactly how many and which article titles it should download, and then scan the list and read the ones you are interested in.

As a batch downloader you select which articles you want to download – there is the option to include or exclude articles using wild cards – and then hit the download button in the articles list. All the articles are then downloaded into a single batch file that you can either process with UUhX to extract UUEncoded files, or with Rnews so Tin can be used for off-line browsing.

➤

MNEWS

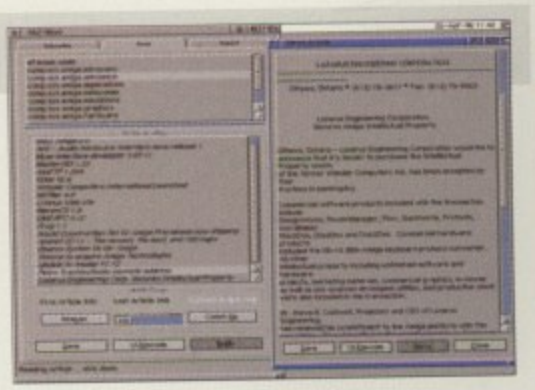
There seems to be a MUI version of every major Internet utility and newsgroups are no exception. mNews is the most recent of all the newsgroup software – it is only a few months old and is a very early beta release. However, in its current form it is a very usable on-line reader and has the potential to be a good off-line reader in a future version.

If you would like to try out mNews you can find the mnews0_2.lha archive in the comm/news directory. Once you have extracted the archive, drag the directory into the AmiTCP drawer. Before you run mNews you need to add assign mNews: AmiTCP:mNews to your user-startup, and if you want to run it straight away type it into a Shell.

When first run, mNews needs to know a few things. Most importantly, for the remote host configuration you have to enter your Domain name, and also that all-important news server address. For the local host configuration, make the news directory mNews: and for the UUDecode command, enter C:UUhX x %s – if you have got UUhX. Once this is all done you are ready to go.

The only really annoying thing with mNews is that before you can add a newsgroup you need to download the entire newsgroup list from your news server. It would be much quicker if you could just enter the group name yourself.

When you join a group, mNews allows you to choose how many of the recent article subjects it should get, and from there you can select which ones you want to view or save off. There is also the handy option of directly UUDecoding a file and saving to disk. Hopefully, a future release will see mNews becoming a very good news reader.



Worth a look but a new version of mNews is not due until July

GRn

GRn is another on-line news reader, but my main complaint is that it is so slow. Once you know what is going on, GRn is not too bad to set up. I'm assuming you are using AmiTCP 3 or above, so you need to give the program *GRn.amitcp* an icon file. If you are using SwazInfo, pop up its information requester and drag & drop the normal GRn icon across – otherwise you will have to manually copy an icon. Next you need to add these two Tool types to the icon:

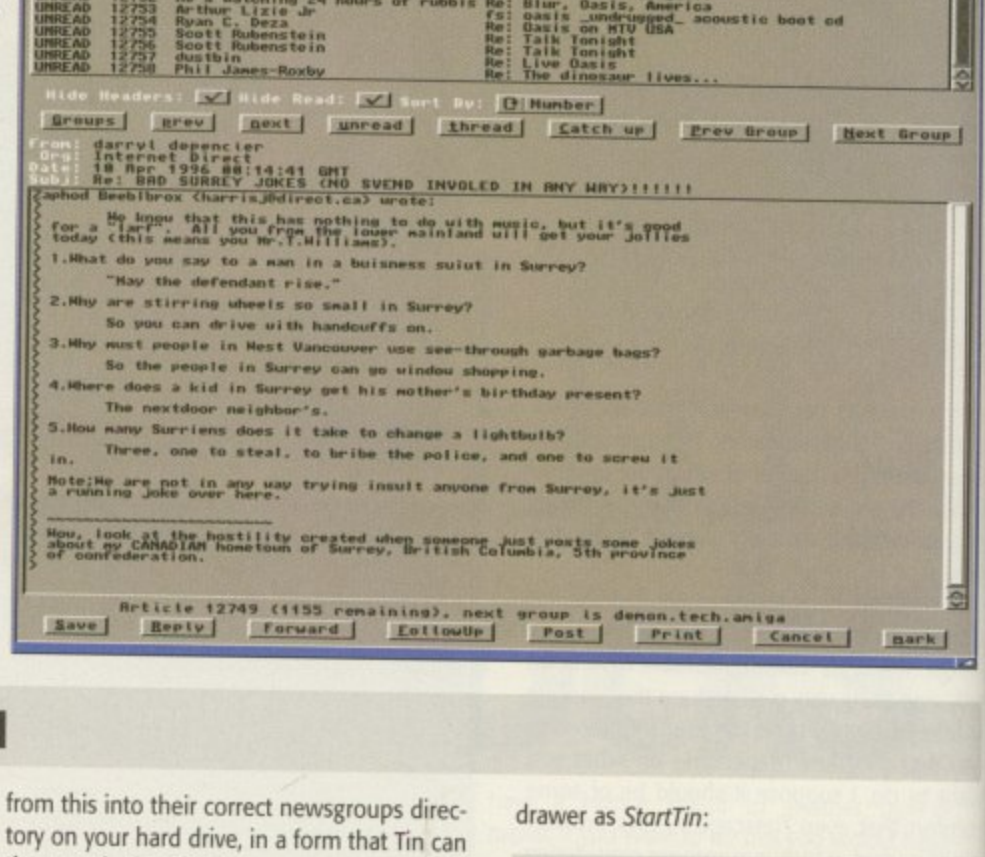
```
NNTP
NNTPSERVER=news.demon.co.uk
```

Before you begin to run GRn you also need to create a drawer in UULib: called News so GRn can save the active newsgroup list into it.

Once this is done you can choose which groups you want to subscribe to – I would suggest that if you only pick one, comp.sys.amiga.announce would be a good choice. If you now quit the newsgroup list and click on Save/Update GRn and then Rescan news, GRn will get the latest posting to the amiga.announce newsgroup.

Even with GRn only having to scan 20 or 30 article headings it takes absolutely ages. In the main article viewer you have to download each article separately and there is no way of knowing how big an article is beforehand. If you do not suffer the same speed problems as us then GRn would be a reasonable on-line news reader, but as it stands it's just too slow.

It looks all right, but it is just too slow



TINTINNABULATION

Tin is one of the older news readers around and is a port of the Unix news reader. As it stands it is not too straightforward to set up but once up and running it does give you a lot of features and is fairly easy to use.

The current version on Aminet is version 1.3 and the archive you want is comm/news/tin130gamma.lha. Along with the Tin archive you will need a couple of other small tools that help Tin look after downloaded news items. You will need to get TrimNews.lha as well which can also be found in comm/news, and Rnews117R4 Hist.lha can be found in the comm/uucp drawer.

Rnews takes a batch file like the one created by NewsAgent and separates all the files from this into their correct newsgroups directory on your hard drive, in a form that Tin can then read. The TrimNews program removes old news files, so keeping the amount of news on your hard drive under control.

To get Tin up and running you will need to extract all three archives. Copy Tin.exe and Actived from the Tin archive along with the Rnews and TrimNews programs into the AmiTCP:bin directory. As Tin is a Unix program you cannot just go ahead and run it and expect it to work as there are a few things that need to be sorted out beforehand.

These have to be done every time so you need to create a small batch file that you will use to run Tin. Type the following list into a text editor and save it to the AmiTCP:bin drawer as *StartTin*:

```
Rnews UUSpool:NABatch  ; get news
Delete UUSpool:NABatch ; remove old batch

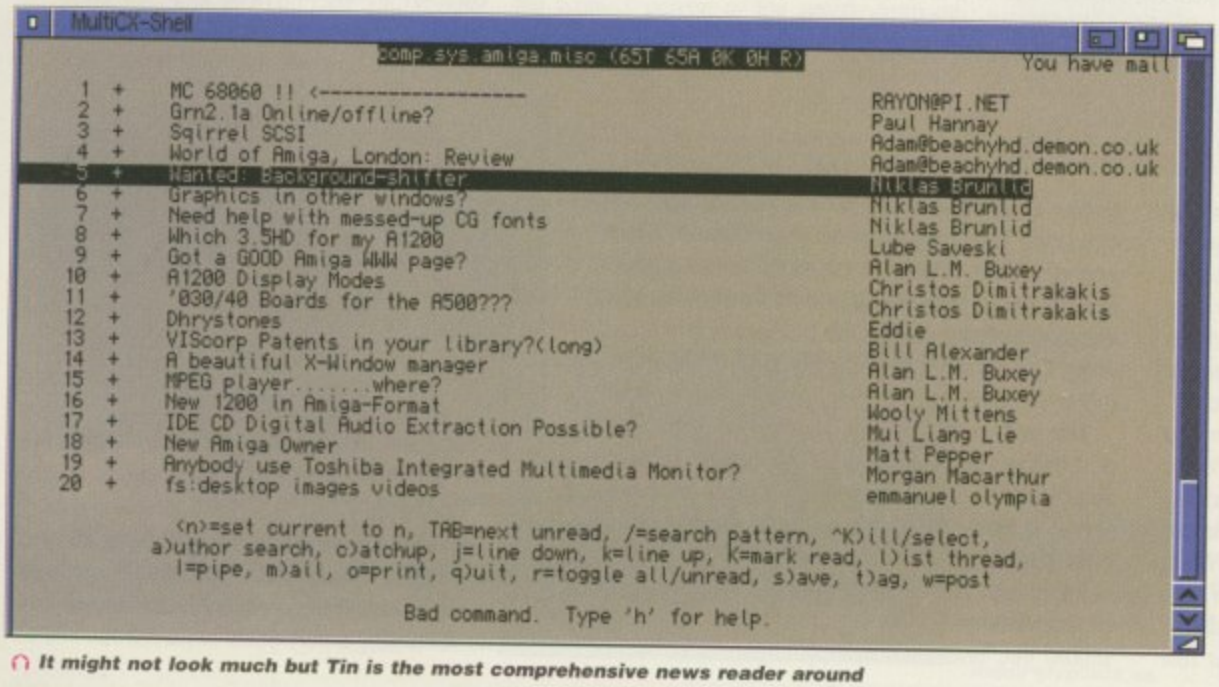
SetENV USERNAME $USER  ; to make sure it's set
Actived    ; create a new active file

Delete UULIB:Active quiet          ; Delete old
active file
Rename UULIB:newsactive UULIB:Active
; insert new active file

tin.exe    ; start tin

Ask "Do you want to trim news no y/n?"
If warn
TrimNews   ; remove old news
EndIf

UnSetENV TIN_GROUPS    ; this is set by Actived
for TIN
```



It might not look much but Tin is the most comprehensive news reader around

So that you can then actually use this script to start Tin, you need to type the following line into a Shell:

```
protect amitcp:bin/starttin +s
```

and this tells AmigaDOS that *StartTin* is a script file and that it should be executed. This allows you to just type StartTin instead of using the execute command every time you run the script. To add new newsgroups to Tin you need to alter the UULib:Newsgroups file. This holds all the newsgroups you want Tin to read, so to add comp.sys.amiga.announce load the newsgroups file into your text editor and at the end type comp.sys.amiga .announce. You can then add a number after it that relates to how many days news should be kept before TrimNews deletes it.

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According to many in the **Amiga** industry, April's World of Amiga show was supposed to be a **flop.** It was far from it as **Ben Vost** discovered

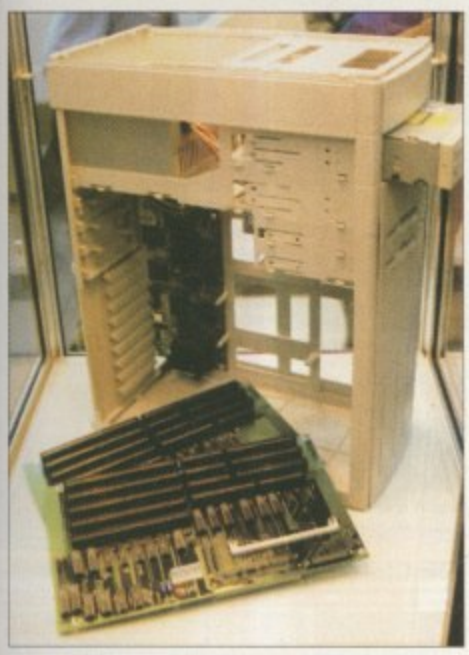


Peter Brameld, show organiser, in "I told you so!" shock

Standing room only

Hammersmith's Novotel will be a familiar venue for anyone who has visited Amiga shows in the recent past, and the basement suite should be even more familiar for this is where, year after year, the faithful have gathered to pay homage to the Amiga and all its wares.

This year's show was thought to be a muted affair, the concern over the machine's future hanging over-head like a bad smell but, as it turned out, WOA 96 was a very busy show. Although there wasn't very much that was new on the stands, there was a lot of enthusiasm from punters who were spending money at a rate of knots. In fact, the show proved to be on the small side with people standing five deep at stands (including ours), waving fivers, desperate to donate their cash to worthy causes in return for a bit of software, hardware or the odd magazine or two. The international contingent was high and although there was only one foreign-owned stand, there were plenty of VIAPs (Very Important Amiga People), if you knew where to look. In fact, the show had a very international feel to it, at least behind the scenes, where there were deals being done and hands being shaken in every nook and cranny of the Novotel bar. So just who was on the show roster? For a start, Amiga Technologies had a cut-down version



Micronik's A1200 tower case looked particularly impressive. We look forward to doing a review

NOTABLE BY THEIR ABSENCE...

There were a few notable exceptions from the companies at the show including Softwood/Gordon Harwoods that meant Digita cleaned up with sales of the new Wordworth 5. Also missing were any games companies, leaving the magazines to fill that end of the market (a bit galling really considering most of us really pride ourselves on the technical side of matters). Almathera was also not there, but with good cause because the team was supposed to be hard at work finishing off Photogenics2, a new version of the best-selling image processing program.

Blittersoft was sorely missed since there was no other graphics card reseller we could point our punters in the direction of, and Silica didn't show up either to sell its wide range of Amiga products. All I can say is that Silica must be kicking itself now given the attendance and the amount of money floating around at the show.

of its monster stand from CeBit, complete with the only working Walkers in existence which, as could be expected, were drawing a lot of attention.

Directly opposite was our stand, replete with issues past to present and our star attraction – Worms on our A4000. Unfortunately, there was seemingly absolutely nobody at the show selling the game so all our publicity was for naught. However, we did have Andy Davidson, programmer of Worms, on our stand at one point on the Sunday showing the new Worms+ to the new owner of the Amiga, Bill Buck, CEO of VIScorp. An ideal photo-opportunity, you are probably thinking and yes, it would have been if it wasn't for the fact our office camera's battery had run down to a point where it couldn't even focus, let alone take any pictures.



David Link was so hoarse by the end of the show, he's buying a controlling stake in a famous throat pastille manufacturer...

Magazine's were pretty well represented at the show as a whole, perhaps something to do with advertising contra deals? CU Amiga had a head-to-head game of Alien Breed 3D2 on their stand, Format had Capital Punishment, and EM magazine had Errol from EMComputergraphic for entertainment value.

HiSoft's stand was constantly busy, so much so that it took me until Sunday to speak to David Link. He said the show had been a great success, which can only be due to the fact that HiSoft has some great products either coming out or here already, with the likes of the Surf Squirrel and Web and Net Café being particularly sought after at the show. It also had the Jaz Drive in an internal version ready for sale, but additional cartridges were a bit thin on the ground. The problems surrounding the dearth of Zip drives have obviously been resolved, on the other hand, because practically every stand I saw had them for sale and the competition for custom at the show meant better prices than many potential customers expected.

Wizard Developments had a stand selling its mix of modems and software including showing the latest version of Directory Opus, the one I promised Greg Perry I wouldn't call DOpus five and a half... oops! Still, the new version looks as if a lot of the complaints directed at the very first release of DOpus 5 have been sorted out (although my original complaints about selecting font directories with their appropriate .font files, and DOpus' ability to read two floppies with the same name haven't been fully resolved). Greg even gave us some T-shirts to give away, so the first five readers who send a pretty postcard from where they live to our usual address will get one of these exclusive garments as modelled by the svelte Mr Perry himself.

Scala had a chunk of the AT stand for its renowned demonstrations of Scala's abilities and also had its own stand showing and selling MM300 at ridiculously low prices, along with a collection of Scala merchandise including polo shirts and a Scala 'executive toy' kind of thing, based on its ladder logo.

Anybody in the market for a CD-ROM or two would have been well advised to visit the Epic stand or EMC's where collections of clip art, fonts and images were being snapped up at a fair old rate of knots. Two things that somewhat surprised me at the show was firstly the fact that people were actually attending the show that didn't yet have any sort of computer, and they were asking whether the Amiga still represented a good purchase. I'm very pleased to say that in all the cases presented to me, I could wholeheartedly recommend an Amiga as being the best choice for the job. The second thing was just how well-informed a lot of Amiga owners are. I mean, I know we're in a limited, close-knit community, but even so. I had dozens of people coming up to the stand asking what I thought of the VIScorp take over, and asking where I was going to the pub that evening so they could grill me further about the press conference that took place after the show had finished on the Saturday.

All in all it was a good show and it was nice to see so many familiar faces (Dan, Ian, Dave, Danny, George, Xavier and all the rest...). I look forward to the next one.



Bruce Lepper editor of France's leading Amiga mag, and Greg Perry modelling one of the DOpus 5 T-shirts we have to give away



Do you know me? I used to manage a well-known Amiga company, but now I like to play geetar



Young Andy Maddock struggled to beat the Oh No team in our running demo of Worms

Crowds, crowds, crowds and even more people were at the WoA show this year



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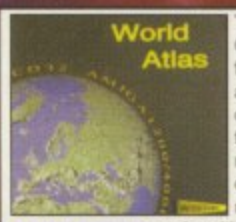
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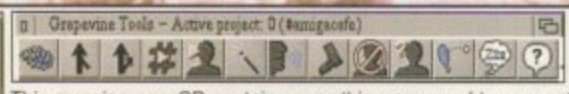
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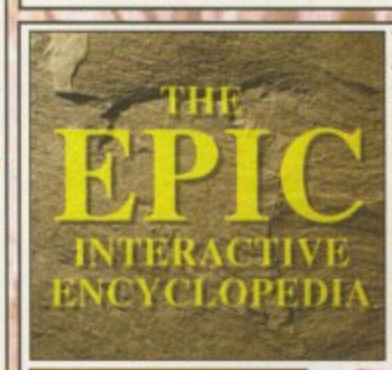
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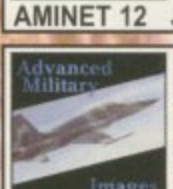
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JUST SAY NO TO NON-CUSTOM CHIPS!

Why do so many people insist that the next generation of Amigas should ditch the custom chip architecture in favour of some generic PC chipset and retain only the OS because it "...is the only thing the Amiga has going for it when compared to today's PCs...".

Well, excuse me, but I would like to remind those who are urging Amiga Technologies to follow this path that the Amiga is not IBM compatible. The Amiga's OS and chipset, and the integration of the two, while left to stagnate over the past year and a half, are fundamentally superior to the make-shift 'architectures' of other lesser computers.

The Amiga's OS is unique in desktop PCs in that it is a multi-processor OS. The whole point of the Amiga's custom chipset was primarily that it takes most of the audio video and I/O work away from the CPU (not merely accelerates graphics as with recent PC blitters). Yet many Amigans have fallen into the trap of believing that technological achievement in computers comes from implementing the approach of developing computers with faster and faster CPUs in the hope that the sheer speed of the thing will eventually overcome the inherent flaws. From the very beginning, the Amiga bypassed this problem, yet many Amigans would willingly abandon all this for greater compatibility with the 'mainstream' of computing.

The following questions must be addressed with an implementation of a PC chipset.

1. Would an Amiga retain the unique features such as the copper, the real-time execution of tasks, the fact that the system manages more than one task simultaneously (something that a PC, Mac or even DEC Alpha machine will never do if current trends in their development are anything to go by), and the fact that the sound channels are completely independant to the point that they may be utilised simultaneously by different programs?
2. Will the system retain PAL and NTSC screen modes (proven to be a distinct advantage in video), and will the system retain bit-planes in addition to implementing a chunky pixel mode? The distinct advantage of bit-planes is that with one execution a whole screen can be altered. In contrast, with a chunky pixel screen mode, each pixel requires a command. This feature is what makes the Amiga unique as a multimedia machine. Finally, Zorro slots should be retained in addition to implementing a PCI bus. Zorro's are more stable and their autoconfig nature is superior to the PCI's 'plug and play' – Roll on Zorro IV!

Jay Miner would be turning in his grave with the idea of ditching all that makes the Amiga special. The future PowerAmigas should further the concept of moving away from relying on the CPU. Bandwidth and breaking the 'bandwidth barrier' **is** the future of computing. Only the Amiga has the basics required for the future of computing if AT doesn't screw it up!

The DMA should be used for everything: from the blitter to the copper, audio video and I/O. The bandwidth of this DMA would well and truly exceed the 500Mb/s limit and would leave the CPU virtually free to merely assign tasks. Slow-down would not be experienced with this bandwidth (even in bitplane modes), and the video should allow a combination of chunky and bitplane on the same screen. There should be greater modularity than the current machines, but with a broad bandwidth future upgrade paths would be assured. I agree with Ben Vost's other OS and hardware suggestions in the January '96 issue. (Make the OS more object-oriented however, datatypes are a good start and generally, further integrate the OS with the hardware, not move it away.)

From what I have read, the successor to AAA (known as Project Hombre) had reached software simulation stage. Surely this could be geared to the PowerPC processors? AT should do it right or not at all. The Amiga is only an Amiga if it retains that which makes it special. I, for one, will not be replacing my A4000 if AT develops some 'half-baked' Amiga.

Grant Regan, Penrith, NSW Australia

I guess Ben had better reply to this one, as he has all the other hardware/OS letters we have received after our January '96 issue. Perhaps we should think about running a design competition for a new Amiga? Tell us what you think...

Okay. Here's the real problem when it comes to developing the Amiga further. Are you aware that Amiga Technologies doesn't exactly have hundreds of staff to throw at hardware development? Unlike the PC graphics cards manufacturers who can chuck a hundred people at a problem until they overcome it, AT has a very limited personnel budget. This means that perhaps it is time to think about offering a standardised solution when it comes to graphics. There are VGA chips out there that can be programmed for PAL or NTSC compatibility, and there are also chips that can manipulate 3D graphics in the same way the Amiga can handle 2D ones. At the present time, we, as Amiga users, are not using a chipset that has been "...left to stagnate over the past year and a half...", nothing has been done with it for over four years! That is an incredibly long time in the computer industry, and it is a tribute to the Amiga's abilities that it didn't fail a long time ago with that kind of attitude to R&D.

So what can AT do (especially under new ownership)? For a start it should really concentrate on developing the OS, which is already further advanced than others in a lot of respects. OS development isn't cheap, but it's certainly a lot cheaper than hardware development. If AT could concentrate on developing graphics routines for these new breed VGA chips to provide decent 3D and 2D graphics, then we would have a great machine for graphics again. If these libraries were also designed to work on any chipset, given a driver, then any graphics card could be integrated into the system, allowing for a low-end one for cheap Amigas to a 64- or even 128-bit version for high-end machines.

The other benefit to using standardised parts is, of course, their cost, which would be a lot cheaper than a new Amiga chipset. In principle, I agree that at some point in the future AT (or whoever) should create a stunning new chipset that all Amigans can be proud of, but in the short term, unless machines can be sold, there won't be any Amigas for a new chipset to go into. The libraries idea could also be extended into areas other than graphics, with a similar approach to Apple's, where even text handling can be managed by the system. This way users who felt they wanted them could have 16-bit soundcards, DSPs, high-end graphics, all integrated perfectly into the system software.



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EXPANDING COLLECTION

In Ben Vost's editorial, 'Killing ourselves', in the May 96 issue *(that's issue 11 for the American version)*, he makes a number of points that I feel need commenting on.

He complains that by 'giving away all this nice software' the Amiga purchaser is discouraged from buying 'anything else'. Apart from the fact that even the current Magic Pack contains only nine software titles (and therefore a minuscule amount compared to what is in the average Amiga owner's collection), they are not necessarily the best or preferred choice for Amiga owners. Thus, far from taking away 'their incentive to go and spend some more money', this selection of software will encourage new owners to either upgrade or look for an alternative and explore other areas not covered in the Magic Pack.

While bundling software with any computer *is* a marketing ploy, one should not forget the inextricable link between hardware and software. The debate between the Amiga and PC is quickly ended if you take away all the software – both are useless (although the disks can be used as coasters).

As to his comments over the 'seemingly endless stream of full product coverdisks' that negate any further sales, I think he ignores two significant factors. Firstly, they introduce the end user to an area that previously might have been considered technically prohibitive, and therefore not worth risking hard-earned cash on (better to buy yet another shoot-'em-up, the manual only contains one instruction – kill everything in sight). Secondly, familiarity with just one piece of serious software breeds confidence, and confidence (coupled with some knowledge) is essential when using any computer. All too often the games side of computing dominates because of the frustrating lack of knowledge to do anything else (see the advice pages of any computer magazine).

I was initiated into the world of serious software through the give-away of PageSetter 1 (on another magazine, although you did, in fact, put out a demo of PageSetter 2 in October 1990). I then purchased Gold Disk's Office and familiarity with its suite of WP, DTP, spreadsheet and database, coupled with my expanding knowledge, led me to understand my needs better and the limitations of the software. Subsequently, I have moved onwards and upwards in these areas (although not as far as databases go, the Office one still does everything *I* require). Indeed, it could even be said that the full product coverdisks have been rather limited in their use, some deliberately so by being lite versions, others by a timed obsolescence (the most sensible option – a demo is restrictive and therefore runs the risk of being casually discarded), and some by a far too optimistic expectation of average machine specifications, but they do serve a need.

Having owned an Amiga since December 1989, I know what areas of the computer interest me and what software will fulfil my needs (although SoftWood will no doubt convince me that Final Writer 5/6/7... is infinitely superior to my now marginalised version 4). Nevertheless, there are plenty of new Amiga owners out there who are not so sure and these disks do provide a window on what can be a very inaccessible and confusing world. Furthermore, it could be argued that these coverdisks stimulate the market and that the very existence of the Amiga is proof of that in what has

YES, WE LOVE YOU

Like many Amiga owners, I use my machine for a wide variety of tasks from 3D modelling to C programming, and because of this I tend to end up buying nearly all the magazines dedicated to the Amiga (with the exception of the games-only mags), simply because they all offer something that their competition doesn't.

However certain magazines have started to become stagnant in their originality and because of this I rarely buy them any more, unless there is something essential on the coverdisk.

Amiga Computing was one of the magazines I rarely bought, but over the last couple of months I've been eagerly awaiting its release. Your articles have been interesting and refreshing to read, particularly the Future Investigations issue.

Your writers seem to have a more professional and mature attitude to the Amiga which is lacking from other magazines who have an annoying tendency to put jovial quips all over what are supposed to be 'serious' articles, and I can't help feeling they don't use the Amiga professionally.

Coverdisks are another strong point – in particular issue 98. There wasn't one program I haven't installed on my hard drive, and the Breathless patch was a god send because I don't have a modem yet *(you do now though, don't you Matt? – ed)*, so I can't download patches from the Internet.

All in all, your magazine offers the widest variety, the most professional approach, and the most informative news and reviews. You have a unique formula. Whatever you are doing, don't change!

Matt Gorner, Coventry

Ta very much Matt.

IT'S IAN AGAIN

This month's magazine, as always, has all the up-to-date news and gave me much food for thought and reflection. In particular, your article about 'CeBit'; when I worked for a German company some years ago, I used to need, at the drop of a hat, to whizz off to exhibitions in Germany and, like you, finding accommodation was always a problem at the last minute. I found the best way to deal with it was to hop on a train and go to the next town and stay there. Not only is the German rail network **infinitely** more efficient than ours, it is also a lot cheaper.

My original reservations about Escom still hold good. Amiga Technologies might, at last, be showing signs of some action, but it still seems to me (and I hope that I am not being too patronising when I say that I wholeheartedly agree with the views expressed in your magazine on this matter) that it is all too little and too late.

So many other people seem to think now that AT and Escom are lovely for the minuscule morsels of comfort that they have offered so far, that I feel I am going out on a limb when I say I think they are up the proverbial creek without a paddle. This new gadget they are slotting into the program – you referred to it as the 'Walker' – as the new up-market version of the A1200 – what an abortion! Who do they think is going to pay all that money for what can at best be described as an interim measure? To be more specific, it has the economy version of the 68030 chip, too small a drive to be useful to the high end user, and no real possibility of proper expansion. I refrain from commenting on it's appearance!

The 'lower' end of the market, by which I mean the people who only have a very limited budget and are looking for 'starter' entry to the home computer, are already catered for in the Amiga market by the many good offers on the 1200 packs currently available. If you start talking in the £500-£800 range as the entry point for a standalone machine, it doesn't take a genius to see that beginners will naturally be drawn to an 'all-in-one' PC with a Pentium processor, monitor and around 8Mb RAM running Windows95 and with a very much reduced upgrade path for the future. Faced with that kind of a choice, if I was just starting I would certainly choose the PC.

If they want to attract the already large and dedicated Amiga community to continue spending money on things Amiga, they should be looking to find a way that existing users with both A1200s and A4000s can upgrade and cross the divide to the PC and Mac. I would suggest they start by designing a new replacement motherboard incorporating all that is best in the existing Amiga, but with expansion slots like one finds on a PC motherboard, to enable the high-end user to transfer all their existing peripherals and memory to make the new Amiga what it always was: the best home computer on the market

Ian Aisbitt, Bedale, N. Yorks.

It's always nice to hear from you Ian, and Ben thanks you for your kind (unprinted) comments on his ascendancy to editorship. We both hope you will continue to favour us with your pointed and interesting letters.

As it stands at the moment, I just wonder how many other people reading would buy any of the Amigas as a first computer now, if they didn't know anything about the respective merits of the various different computing platforms?

been some very troubled times. There has been a distinct lack of corporate confidence in the Amiga for some time and while it is not a sinking ship (just listing badly), Ben Vost appears to expect the passengers to do the bailing out while the Captain and crew take to the lifeboats.

Personally, because I have all that I need, I prefer coverdisks that contain utilities (one small program that sits in your WBStartup drawer is better than a full program that sits in the bottom of your computer desk). Nevertheless, not everyone has had an Amiga as long as I have (and I intend to take advantage of Escom's trade-in offer and stay with the Amiga), and these coverdisks do provide, for some, a semblance of stability in unstable times.

Finally, the rise in the cover price of magazines seems to be in inverse proportion to their size. Your magazine provides the exception. The October 1990 issue (with PageSetter 2 demo on the cover) cost £2.95 and contained 116 pages. The May 1996 issue shows a 50 per cent increase in price (not too bad for an extra disk, six years and a hefty rise in paper prices) and contains 124 pages.

Stephen Edwards, Norwich

£50 PRIZE LETTER

A well-reasoned argument – so you get the prize – but some points need issue. Firstly, putting full price software on coverdisks may not have been too bad in the past when mags could only put one or two floppies on the cover, but now, with more and more magazines offering a CD-ROM version – where there are certainly no size restrictions – the full programs will be just that, with on-line documentation and all the features they had originally. Not only that, but if mags only gave away demos, then just think of the market that could be there for budget versions of serious software in much the same way as games are sold. That way the publisher would still be able to sell their product, shops would stock it, and people who missed out on a particular issue of a magazine would still be able to buy the software, a situation not possible once you have devalued the program to zero. The problem is that there is no incentive to continue to buy software if it's going to be available for free in a few month's time, and there are still an awful lot of people out there who stick with the coverdisk versions given away.

Secondly, giving software away with computers negates the need for a shop to stock software and peripherals. They can sell the Amiga as a complete solution and never see its new owners ever again. Putting the software that was in the bundle into shops (along with competing products) will ensure that punters will be able to see the choice available to them and pick and choose the titles they want to concentrate on. These same shops could also carry demo versions of the software they sell which could be sold for a nominal sum, refundable on the purchase of the full product. But instead it becomes harder and harder to find a shop stocking Amiga software (and the hardware's not so easy to find either) and the situation won't get any better if there is no new software to sell because its authors have bunged it all onto the covers of magazines.

OBSERVATION POINT

Every month I read the letters and the pleas for help with open-mouthed amazement and, quite frankly, you must have the patience of angels.

Month after month you are asked the same questions by those who claim to be regular readers of the magazine, but obviously never absorb the information contained within. Month after month you publish letters from many who claim to be committed Amigans who delight in running Amiga Technologies down for their lack of commitment and marketing.

Please bear with me while I make the following observations:

1. AT purchased Commodore for £10m plus *(actually it was £15m dollars – ed)* and a similar amount in preparation for purchase, associated necessary deals, setting up production, minimal advertising, not to mention distribution and direct product costs. After a long period off the shelves, spending £20m was a gamble and as an investment it must be recouped as quickly as possible. With this in mind, AT has to load the price of every Amiga sold. Add a bit for development of new models, a little bit for profit, a wedge for distributors, a piece for retailers, a reasonable royalty for Digita and the other companies in the bundle, and all of a sudden £400 for what is still an excellent computer seems like a pretty good deal.

2. Advertising by the big boys over Christmas was tremendous. How can AT compete? Without scratching your head can you name the companies who have advertised their UNIQUE computer in the past 12 months? Yes; Intel Inside, Pentium, Multimedia, CD-ROM, Encarta, Windows95. Walk into any computer dealer or high street box shifter and you can buy an IBM compatible PC (a clone – no research or development costs). Not always the one you have seen advertised because you can bet that every dealer (Escom included) can offer a better deal on a PC with compatible sound card, quad-speed CD-ROM drive, stereo speakers, blah blah...

3. Christmas advertising did indeed sell a lot of IBM compatibles. AT has a unique product which must be sold as such. It cannot ride on the back of others and it cannot rely on impulse buys or the recommendation of dealers. Dealers make far more money by selling cheap PCs to leads generated by the big boys. The big boys make their money from business buyers.

Don't let your readership and other loyal Amigans be fooled or blinkered into thinking that a high spend on advertising will guarantee high sales – personal recommendation could well be the best way forward. If only 10 per cent of Amiga users in Britain convinced a friend that the Amiga was the best all-round computer, that alone would guarantee a bumper and prosperous year for AT.

Tom Porter, Torquay

You're right about not being able to ride on the back of others' advertising. In fact, the Amiga has never been able to ride on the back of any other platform – the price for being unique, I guess. But I wonder about that 10 per cent. Unfortunately, I'm finding increasing evidence to suggest that there are one time Amiga users who now own PCs that are doing precisely what you suggest, but in the wrong direction. Ah well, we'll have to wait and see what VIScorp have to say about the situation.

UNSURE IN THE UKRAINE

Considering the lack of any official Amiga representative in the Ukraine, please assist me in contacting Amiga producers with the aim of dealing in the Ukraine.

Andrew Terentyev
Gavannaya, 6/37, Odessa 270057, Ukraine
Tel: 380 482 230693 Fax: 380 482 259835

We're printing Andrew's address and phone number here in case anyone out there would like to help him...

MORE PRAISE

Just thought I would drop you a note about your Web site. It's really rubbish and I hate its crass mediocrity! No, just kidding, I think the new, improved AC Web site is just great and beats all the others hands down. The Webchat service is a smashing idea that I intend to check on a regular basis and it's nice that the site gets updated so regularly.

One question: why don't you put some of the features and reviews you do online to join the news, etc. No, sorry, I have two questions. I noticed that you did have the Walker pictures up, but when you went to the June update you lost them. Please put them back up, they were really handy!

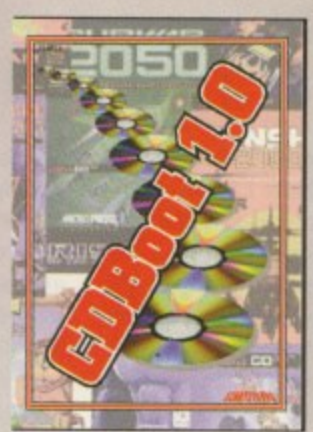
David Gould, Cold Christmas, Bucks

Phew! I thought someone didn't like our site for a second there! You probably already know that we have the Walker page back online again – it's in our new category 'Stuff!'. As for the reasoning behind us not putting complete features and reviews online, well, someday, it might happen. But for the time being, we are still a print magazine and what we want you to do is buy the collection of perfect bound pages we put out every month.



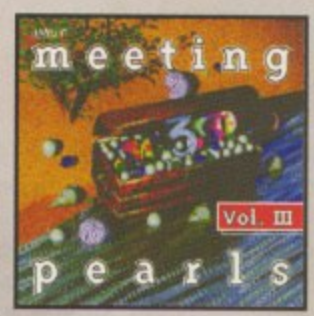
Workbench Add-On Volume 1

The Workbench Add-On CD-ROM is the ideal companion to your workbench. On this CD you will not only find the best programs, that are available for the Amiga, but you will also get them ready-to-run from the CD. In addition to this there is an installer script that installs the desired programs to your harddisk.
The CD covers all areas of interest, all, the programmer, the user, the creative and the gamer will find what they are looking for. On this CD-ROM there are many shareware programs, some of them at a special price, if you get registered. There is e.g. Shapeshifter for 40.- DM (instead of 50.- DM), in addition to this there is a 50 MB Mac partition, so that you can start playing around with Mac applications right away. Then there is PowerPlayer for 20.- DM (instead of 30.- DM), there are, of course, loads of modules with it, so that you can try it right away. AmiWin, the new X11-server for the Amiga is available for $40, instead of $50. You can so ve more than 100.- DM with this CD. Therefore you only have to send in the appropriate page in the booklet to the author of the program. **£24.95**



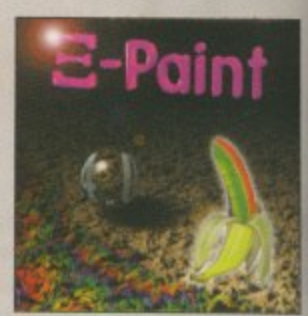
CDBoot 1.0

CDBoot is a fantastic new product that enables you to use almost any CD32 games on an A1200 or A4000 (with AT- or SCSI-CD-ROM drive and any filesystem). You can create a configuration file for each CD, containing information on the Joypad emulation. You can also save the highscore of each CD32 game. The usage and installation of CDBoot is very easy, also for beginners, due to the excellent English manual. Since the compatibility is very high, you can use 98% of CD32 games currently available. CDBoot is an excellent software solution for all Amiga-Freaks, who would like to enter the world of CD32 games! **£34.95**



Meeting Pearls Vol. III

The Meeting Pearls Volume III contains 650 MB of the finest FD software via a special user interface, which has been created to allow you to find the program of your choice with ease. The contents: 10 MB Packer, Cruncher, Archive Programs · 3 MB CD-ROM Utilities · 21 MB Communication and Network Programs · 5 MB Debugging Tools · 29 MB Development Tools · 13 MB Floppy, Hard Disk and SCSI Programs · 8 MB Educational Programs · 9 MB Games · 35 MB Graphics Programs · 39 MB Internet Movie Database, Updated Version · 7 MB Midi Tools and Programs · 27 MB Mods · 12 MB Music Programs · 21 MB Pictures · 13 MB AmiTCP and more for Networking · 60 MB Documentation, CD-ROM Databases, etc. · 96 MB PasTeX 1.4 - not previous available on any CD-ROM · 15 MB Utilities · 30 MB HTML-Pages · Collections of datatypes, benchmark programs, icons, programs for amateur radio and electrical/electronic engineering are also included. **£9.95**



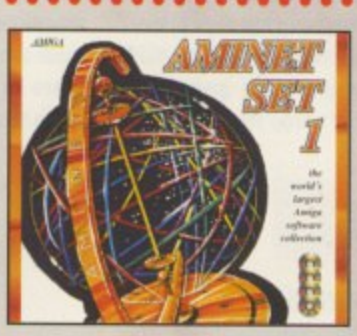
XiPaint V4

XiPaint 4 is the new version of the leading edge, 24bit pa program. It's suited to the demands of novice and expert alike within a short time, you too will be able to produce colourful creative art in 16.8 million colours. This version of XiPaint ha animations as well as easy-to-use raytracing-capabilities.
Overview of Features: · Diverse paint functions including colo contrast and saturation adjustment · Mask, outline, recolor and functions · Airbrush with adjustable spray functions · Lightn function for manipulating montages and animations · Text functi with anti-aliasing using Compugraphic fonts · Support for a variety graphic formats · Unlimited Undo · Diverse manipulation of alp channel · Supports many graphic cards · Layers to combine differ projects · ARexx port · Drag & Drop colours · External filter modu Extensive documentation · 60 textures, 50 landscapes, 30 ob pictures and many fonts included. **£49.95**



CD-Write

What!?! You still can't write to your CDs!! CD-ROMs have long been an essential part of Amiga computing. Many users already own a CD-ROM drive, and the number of software packages available on CD is increasing steadily. Until now, though, it was not possible to write to CDs. We have solved this problem with our new revolutionary product: Ralph Babel and Stefan Ossowski's Schatztruhe are proud to present what can be considered a marvel of technology: CD-Write enables you to virtually write to CDs with an ordinary CD-ROM drive. From now on, you will be able to write, delete, and modify data on your CDs. This product will take you into a new era, and you will be able to utilize CD-ROM technology to its fullest. **£44.95**



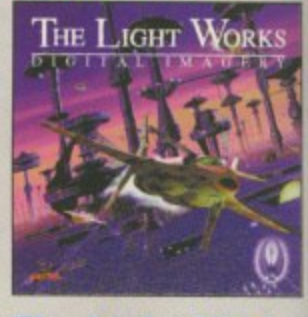
Aminet Set 1

Aminet is the world 's largest collection of freely distributable Amiga software. Up to 10.000 users access the vast archives ervery day and countless programmers publish directly via Aminet. Until recently access to Aminet was restricted to international network users. With Aminet Set 1, consisting of 4 CDs, the complete archive is published the first time. This CD-ROM-collection, which is dated January 1995, offers an almost inexhaustible reservoir of top-value Shareware. A wide variety of programs is included: Applications, Games, Demos, Pictures, Mods, Animations, Developer-Material, ... It contains approximately 4 gigabytes of software in 12.500 archives and you will enjoy the comfortable user-interface. **£29.95**



Aminet 11

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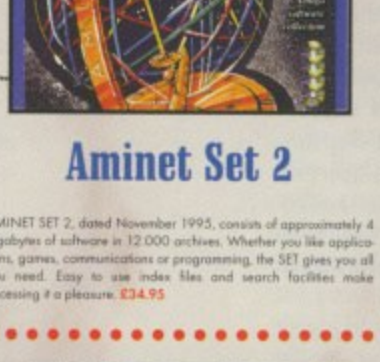
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amiga computing advice service

Posing problems and predicaments, painstakingly pondered, probed and finally pinned to the wall

SIMPLE QUESTIONS

Please help me by answering a few, I hope, simple questions.

1) I have heard the A1200 IDE can handle 2-3 devices, is this true? If so would it be able to handle an IDE CD-ROM? I do have some CD Drivers.
2) Am I right in assuming that a HD connected to a 286 Motherboard would be an IDE drive?
3) When I use Urouhack the sizing of some scrolling gadgets appears corrupt on certain programs, such as MultiView and DiskMaster II. Any ideas why?
4) When I try to load Nemac IV it says "can't locate BM". What is BM?
5) After installing some software such as DPaint IV and Gloom, when I come to load it I get the message "Unable to open your Tool Gloom" or whatever title I'm using. I have tried using DOSTrace to find out what is wrong, but all I get is the message "Unable to find Segmented Image", which is no good to me because I don't know what a segmented image is. Do you know why this software will not run from my hard drive?

Alan Bailey, London

1. Well yes, no and no. Any IDE interface can handle up to two drives daisy chained together, so in theory the A1200 IDE interface can take two hard drives being connected to it. The problem you are going to have is how are you going to fit two IDE drives into an A1200? There is barley enough room to fit one 3.5" drive, never mind two 2.5" drives, unless you fancy having a hard drive dangling out of the side of you machine.

If you have a tower system then you do have the room and can therefore have two drives on your A1200 IDE interface. The problem with IDE drives is that you need to make one the master and the other drive the slave. This involves changing a jumper on the two drives, and unless this is marked on the drive you are going to have to ring up the manufacturers to find out what the correct settings are.

If you want to add another hard drive there are a couple of possibilities available to you. You have the usual Squirrel or DataFlyer option that will allow you to hook up an external SCSI drive. SCSI drives also have the advantage that they need their own power supply, so your poor old A1200 PSU is not put under any extra stress.

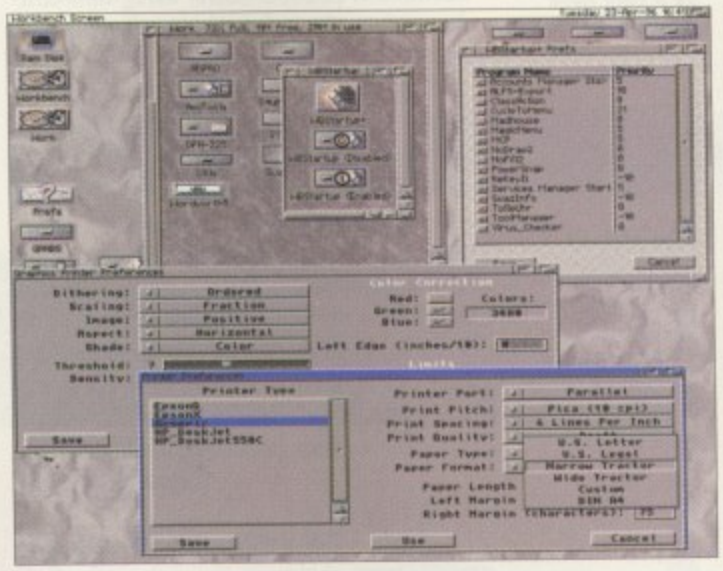
To confuse things further there is a new(ish) standard called E-IDE, pronounced e-d-e I think. This is basically an extension of IDE and allows four devices to be connected to it and is faster. It is also the new hard drive interface on the Walker.

IDE CD drives are another kettle of fish. It is possible use an IDE CD drive with your A1200, but you need an ATAPI device driver. Currently, the only one I know of comes with the AmiCDFS software which is a very good suite of CD utilities.

2. A drive fitted to a 286 board is not necessarily going to be an IDE drive, but it probably is. The simplest way to tell is that an IDE interface will have 41 pins, and a 2.5" drive has four more on the right for power and a 3.5" drive has four large power pins.

3. According to the UrouHack author, the problem is not with UrouHack but with the programs you are running. These programs do not take into account the possibility that the size of the window borders can change. Therefore, when UrouHack changes the proportional scroll bar and arrows, these programs don't recognise this and ask the operating system to draw them as if they were the original size. To prove that the author is right, the version of MultiView in Workbench 3.1 does not suffer from this problem because the programmers have fixed it.

The latest version of MCP provides UrouHack-style gadgets that are completely configurable



4. BM stands for BitMap. The Nemac IV demo is quite large and needs as much memory as possible. This means that if you are trying to run it from a hard drive it is possible that you will not have enough memory available, particularly if you are running a lot of utilities or have a large Workbench running a lot of colours. Your best bet is to quit as many applications as possible, remove any external devices, and reduce the size of your Workbench screen. On the Nemac IV config window there is an option to use small textures which are of a lower quality but use a lot less memory.

6. We have no idea what is wrong with your hard drive problem. We recently had the same problem with a second IDE drive that we installed on our A4000, and the problem seemed to go away when I reset the max transfer rate and mask to their default values of 0xfffffffe and 0xffffff. However, if this is not the problem then I'm not sure what is.

ASSIGNS ASSUMPTIONS

I have been having terrible problems getting the Lottery program from your May issue. I have managed to get the program off the coverdisk and copied it onto my hard drive, but every time I try to run the program a window pops up asking for me to insert the analyser disk. The same happens when I try to use the install program that comes with it. What do I have to do to get the program working?

Simon Reeves, Bury

Unfortunately, the problem you are having is one that afflicts every Amiga user. Many programs have extra files that they have to access and to make it easier to find them, for the program anyway, an assign is used.

In the case of Lottery, if you drag its drawer into your work drive then open a shell and type *assign analyser: work:lotto*, this will allow you to get Lotto up and running. You should also add this line anywhere in your *S:user-startup* so that each time you start your Amiga the assign will be automatically made.

On the Amiga, every device that is connected has a cunningly titled device name – for example, the internal floppy's device name is DF0. Along with this, every disk has a logical name, so if you put a formatted floppy in the internal drive you can refer to it either as DF0: or as Empty: which is its logical name. Now, as logical names do not have to refer to an actual physical disk it is possible to create your own logical names using the Assign command.

When you run a program that requires assigns to be made, if they do not exist the Amiga operating system thinks the program is asking for a disk to be inserted. This is why when you try to run the Lotto program you get the insert disk requester, but once the assign has been made the OS is fooled into thinking the Analyser disk actually exists and directs all of Lotto's disk access to the assigned directory.

AMIGA SERVER

I have a question about the Internet and the Amiga. I'm thinking about starting an ISP in my area. Would the Amiga 4000T with a 68060 running NetBSD Unix be a reliable setup for running an ISP? I have been told to stay away from using a PC as they start to bog down under that kind of pressure.

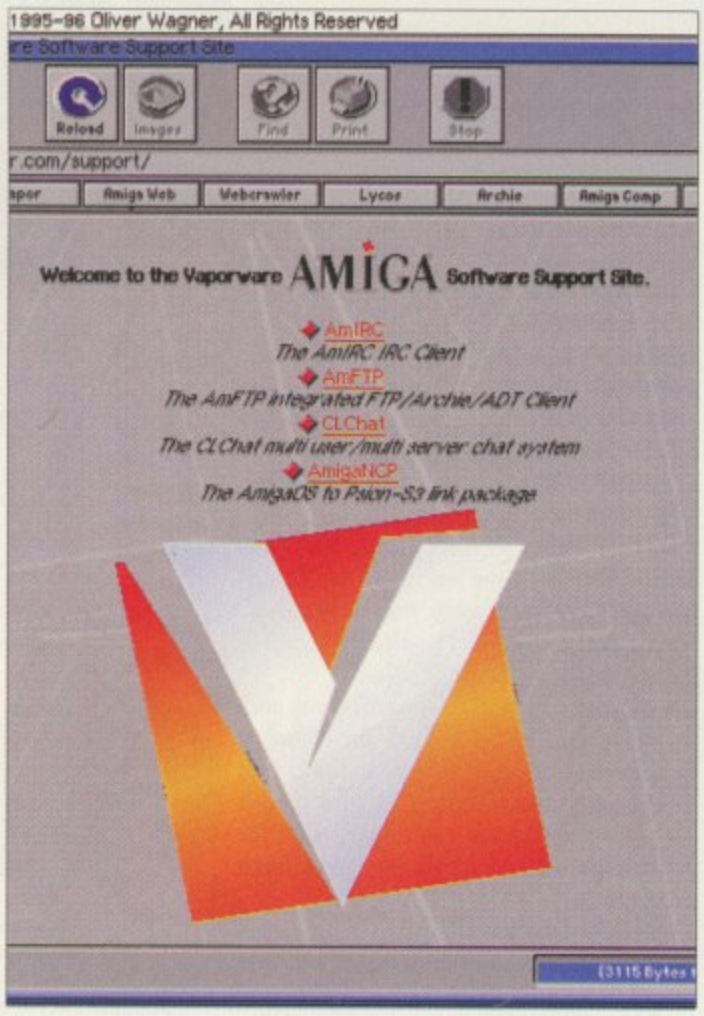
The one machine that was recommended to me was the DEC Alpha. Have you come across any Amiga-based ISPs? If so, how are they doing? I figured Unix would be the way to go because from the experience I've had with Unix operating systems, the Internet facilities are pretty much built in.

If you have any advice for a fellow Amiga user, I'd be grateful.

RSKamiga@aol.com

You will be glad to know that there are a number of Amiga's out there being used as servers. One example would be the Amiga that Vapourware's support pages are running off which is an A3000T. As well as handling mail it works as an FTP and WWW server for a good number of people – its statistics show it has quiet a few thousand accesses a day. I have also heard about an ISP in Sweden run from Amigas.

Generally, it is assumed that the Amiga's own Internet software is very good – apparently the Web server software is excellent, allowing as many user connections as memory permits. Much of the PC's server software only allows up to 256 connections. If you feel easier using Unix software then there is no reason why you should not go that way.



All this and more is served by a very hard working A3000T

SCSI CHAIN GANG

As a transfer subscriber to your magazine from Amiga World, I read all the columns, particularly the beginners corner and ACAS, from which I've gleaned several helpful tips from these little mines of information. I now find myself needing some of your inestimable knowledge of the Amiga, namely how to add a CD-ROM drive to my system which already has a SCSI hard drive attached.

My system is an Amiga 2000 with a GVP G-Force 68030 accelerator (which has the SCSI driver on-board) and a Quantum 540LPS hard drive running under AmigaDOS 3.1. The CD-ROM drive I purchased is a Sony CSD-76SB. Both the CD-ROM drive and the hard drive are internally mounted – the hard drive is on the controller card and the CD-ROM is mounted in the 5-1/4" drive bay.

My question is about the cabling required to connect these devices to the GVP controller. Is it necessary only to have a 50-pin ribbon cable with 3 connectors attached, or is each device supposed to have a second connector for 'daisy-chaining' to additional devices? Neither the GVP manual nor the Sony manual is clear on this point.

If just a single cable with three connectors is the answer, I can make the cable myself. I understand about the terminating resistors, and since the CD-ROM does have the terminators installed, it will become the 'end' device. I have no idea if the hard drive has the terminators as there are none visible and no documentation of any sort came with the hard drive. Am I required to purchase an additional SCSI controller card for the second device?

Andy Rakaczky, Sun Valley USA.
andy@bally.com

The cabling for internal SCSI chains is the same situation as you have with IDE drives – you just need, as you have thought, a 3-way 50-pin ribbon connector. In fact, you can have all seven SCSI devices connected internally, you just have to keep adding ribbon connectors to the existing ribbon. You can still only have a maximum of seven devices connected to the SCSI card be they either internal or external.

If you want to add extra internal drives you will probably find that your main problem is the lack of room. One way around this would be to make yourself a Zorro II shaped card out of plastic and mount the extra drives on this. Internal power isn't really a problem with a 2000 as they have quite a beefy power supply that is more than up to the job.

SERIAL PRINTER

Last year I bought an A1200 with a Hewlett Packard desk writer ink jet printer. At the time of purchase the chap who sold it to me explained that the printer was designed for use with an Apple Mac computer and he had modified it to work with the Amiga serial port which involved a software patch and a cable modification.

All worked well until the hard drive crashed. No problem, I thought, as I had backed up the Devs drawer, including the printer driver I had been using. So I reinstalled all the software and set up the system to how it was before the crash and all seemed fine until I tried the printer. Now I cannot get it to print anything. In fact the only response I get from the printer is that when I run Ncomm it prints ATZ and then locks up Ncomm.

I am now wondering if there was something else needed to run this printer that I did not backup. Do you know of any programs available that will let me use this printer again? If not, do you know anybody who wants to buy a printer for an Apple Mac?

S Mahoney, Gosport

As far as I know, all Mac printers are serial, but this is no problem because the Amiga will work with printers connected through either the parallel or serial interface. Generally with printers on the Amiga, if you have the correct printer driver then you should have no real problem getting it to work.

I used to have an old ImageSetter II printer, which is a printer made by Apple, and had the unusual round connector that the Mac uses. As the Amiga comes with an ImageSetter driver all I had to do to get the printer working was get hold of an IBM to Mac serial cable, making sure the Amiga end was a 25-pin male D plug, and in the printer preferences set the printer port to Serial. You will also have to set the serial preferences to that of the printer specifications.

Finally, there is no need for a software or cable patch, as long as you have the driver, and I think any HP desk jet driver will do. Make sure you set the printer port to serial and the printer should then work. As Ncomm can send an ATZ signal to the printer, it therefore shows that the printer is receiving data. One last point. I think it is normal that Ncomm locks up before printing as it is waiting for a response from a modem.

MUI MADNESS



Do you have a problem? Do you sometimes find yourself poised over your Amiga with axe in hand, spouting profanity at the stubborn refusal of your software or hardware to behave properly?

Well, calm down and swap the axe for pen and paper, jot down your problems, along with a description of your Amiga setup, and send it off to Amiga Computing Advice Service, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP. Alternatively, e-mail us at ACAS@acomp.demon.co.uk

As a beginner on this system, could you give me some guidance as to where I am going wrong and to help with the problems I am having?

1) I recently went from MUI 2.3 to MUI 3.1 and am having a lot of problems trying to get it to work. I have moved the MUI icon with the '?' symbol to my prefs drawer and assigned MUI to my Work partition but nothing seems to be working as before.

I used to have an icon on my startup screen called MUIEnv which housed all my system variables, including my Mosaic settings. On startup I am getting the message "MUIEnv failed to return should I wait some more", and if I cancel this requester it comes up with MUIEnv failed.

When I start Mosaic I get the message "failed to create appicon" which also happens with MetaMail and MetaTool. Where should the Mui Icons in the freshly created MUI drawer be put, e.g. MUIPrefs to Workbench: Prefs drawer? etc. I am informed by my machine when I try to start some applications that I require MUI 3 or above to run the applications. I have installed it so why do these requesters still appear?

2) Where does MetaTool belong and how do you set it up?

3) After upgrading my Hard Drive from a 120Mb 2.5" to the 3.5" 540Mb E-IDE Seagate one every 20 or so switch ons I get a loud blast of music followed by an arrow formed into a triangle appearing on my screen with the wording 'OPTIMISED FOR BEST WORKBENCH PERFORMANCE' below the arrow. In the bottom left-hand corner of the screen the Dolby trademark appears with the wording 'Dolby Surround' beside it. I have to switch off and start again when this happens. Where does this come from? Is it a virus of some sort and how can I get rid of it?

4) My monitor is the Commodore 1084ST, and on the front there is a switch for RGB or CVBS-LCA. What is this for? Can I use it for a better resolution? At the moment I use the Amiga's Video output with the switch in the RGB position.

M Parker, Tullibody
matt@mparker.demon.co.uk

1. It sounds like you are having a right barrel of laughs installing MUI. Firstly, since version 2 of MUI all the relative files are kept in a single MUI directory, and two very important assigns are made so the operating system and MUI programs can find all the right files.

If you have kept things as they were from the original installation, when you install MUI 3 it simply renames the old MUI directory to MUI.old and creates a new one with all the correct new files. If you have fiddled about with the earlier version, perhaps moving library files out of the drawer, then you are going to have problems. Your best bet is to go through your user-startup and remove any lines mentioning MUI. There should be two lines ;BEGIN MUI and ;END MUI, and you should remove these lines and everything between them.

You now need to go through your system and delete the old MUI drawers and any of the files you may have moved out of the original drawer. Once you have done this, reset your machine and reinstall MUI. This will make sure all the assigns and files are correct. If you now want to move the MUI preferences into your Prefs drawer that is alright.

Some people have reported problems trying to run MUI programs after installing MUI 3. This is probably due to incompatibilities with older preferences, and you should probably delete the MUI drawer in the Envarc directory. Open a shell and type *delete envarc:mui*.

2. MetaTool is a stand-alone e-mail package, and before you can run it it requires a number of environmental variables to be set. This is normally done for you when you use AmiTCP's startnet script or most of the AmiTCP front-ends such as AmConnect or AmiTCPHelper.

Once you have extracted the MetaTool archive there is really no other installation needed, as long as the environmental variables are set correctly with the SetEnv command. The only thing you may have to change is the MailCap text file. This tells MetaTool which programs you want to display as different filetypes. Therefore, you may want to change the default MultiView entry to FastView or whichever program you prefer.

3. The program that is causing this annoying screen to appear is the MagicWB-Daemon line in your startup-sequence. This is the program that makes sure your MagicWB icons look correct on screens with more than eight colours. Unfortunately, the programmer took it upon himself to add that little extra.

On most machines this does not crash it but it does hold up the boot process and is very annoying. Just delete this line and you will not be troubled with it any more. The down side is that you need a replacement program to remap the screen colours when you change the screen. MultiCX is a good choice and gives you a shed load of other features in to boot.

4. The CVBS-LCA is there if you are using a composite input which means you cannot get any better picture using it. If you select it when using an RGB input you will just end up with a blank screen.



If it wasn't for MUI, many programs would not be around

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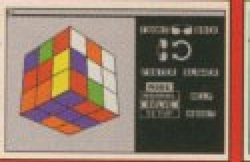
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U509 ULT BOOTBLOCK 40+bootblock generator/maker
U510 ULTIMATE BOOT-BLOCK Collection II +more
U512 ZIRCON UTIL-30 MOST USE UTIL 2 brillant
U515 WIT COMPLETE UTIL 20 most use util

U521 SPECTRA PAINT III Very good paint packages
U550 SCENERY CONSTURCTION KIT fractal .recommend
U551 ASSASIN BOOT BLOCK over 50 bootblock protector
U555 CROSSWORD CREATOR (not WB3) crossword maker
U561 PERM CHECK a full POOL PREDICTION program
U568 ICON CONSTURCTION KIT icon making program
U569 ICON ready made (4 disk)
U590 A600 NUMBERIC PAD EMULATOR (A600 only)
U591 DEGRADER (not WB 1.3) A500 emulator
U592 KILL AGA-make older programe run on A1200
U600 C64 EMULATOR II util, & document
U601 DISKSALV II + ABACKUP (not wb1.3)
U603 THE CHEAT COMPENDIUM for over 450 games
U620 HOW TO CODE IN C (3disk) + many examples
U622 ACTION REPLAY V1.3(A500/600)-cartridge on disk
U623 ACTION REPLAY V4 (A1200 ONLY) same as above
U645 PC EMULATOR V.2.31(WB3 only) SVGA PC emulator
U650 COPY & CRACK TOOL 2 more powerful copy program
U680 NEW SUPER VIRUS KILLER(not WB3)kill 316+ virus
U689 FORCASTER V2-horse racing predition program
U690 ASSASIN COPIER (lots)include Xcopy3/dcopy ect
U694 SUPER DUPER 3. (NOT WB1.3) Vfast disk copier
U696 AMITOOL PROFFESIONAL disk database tool
U699 MEGACHEAT V3 +(more games cheat even for)
U700 ANIMATION CONSTRUCTION KIT V1.2 + good
U702 V MORPH V2.create smooth morph animation
U703 POOL TOOLS 2(Latest)prediction horse racing.
U705 TRONI-CAD-best create circuit board+examples
U707 GAME TAMER(3&4)-(2)For even more games cheat.
U708 LAST WILL & TESTAMENT-write your will
U710 PERFECT-PAINT 32 Very easy to use paint package
U714 ENGINEER KIT various test kit for Amiga
U718 MAGNUM 1.5 REGARD the best disk magazines creator
U721 FONT FARM V3 + load of font + font viewer
U723 EXOTIC RIPPER rate as the best sound/graphic riper
U724 PARNET SET UP(2) require for the connection
U725 PARNET CABLE MAKER INSTRUCTION project save £££
U726 AREX MANUAL(notWb1.3) complete manual.
U729 ASSASIN BOOT UTIL 50 boot block creater util
U730 SOFT AGA (A500plus or A600) & min 1.5 meg
U731 A - Z GAMES CHEAT for over 500 games
U732 MINI MORPHS create TERMINATOR 2 effect
U736 AWARD MAKER II+hundred of ready made
U737 ASSASIN CRUNCH & COPY TOOL (WB 1.3 only)
U738 S.KICK PROFESSIONAL v3.2 Various K-start
U739 TURBO IMPLODER V3.1 powerful disk cruncher
U740 CROSS DOS 5.1 plus read/write PC<->AMIGA disk
U741 HD-DISK TOOL BOX +many more Disk util recommend
U742 HOW TO CREATE AUTOBOOT DISK.complete + util
U743 Util .Disk .Maker v3. MAKE AUTO BOOT DISK
U744 FRACTAL MANIA+BIOMORPH Brillant collection
U745 AF WORK BENCH (3)(WB 1.3 ONLY) replacement
U746 3D GARDEN DESIGNER & view from any angle bril
U747 ASTROMY V2 predict star planet prediction.
U749 DISK REPAIR 3(floppy & HD)include soft-proctect
U750 MUSIC CATALOGUE (not A500(1.3) very easy to use
U751 SYTEM CHECKER TOOL must for any Amiga owner
U753 HARD DRIVE UTIL+lot more Hard DRIVE UTIL
U754 PARBENCH installer (complete)
U755 PRO CAD electronic.latest circuit board designer
U758 WB MENU LAUNCHER-menu system, easy to use
U760 ICON PLUS (3DISK) Hundreds of stunning ICONS
U761 RELOCKIT 1.4 latest WB1.3 emulator
U762 FAKE FAST MEMORY make more older software run
U777 TELE TEXT RECIEVER project. highly recommend
U781 DOSTRACE V2. display infomation why some programe refuse to run. also moniter Amiga activity. RECOMMEND
U783 POOL WINNER GOLD must for all gamber
U789 HARD-DISK MEMORY V2 use HD as memory (re MMU)
U790 WINDOW BENCH V2 (WB 2/3) 2disk new workbench replacement, include lot of useful utilities
U791 COMPUTER DIAGNOSTIC TEST V9 amiga Fault finding

U800 PRINT A CARD include many ready made
U801 MULTI-PRINT V4 lot of printing util
U805 DISK PRINT print custom disk lables
U807 FONT & PRINT Load of utilities to wiew & print your font collection. RECOMMED
U830 POOL WIZARD -(football) prediction
U832 DIVENDEND WINNER - Prediction rograme for use with LITTLE WOOD, VERMON, ZETTER Ect
U834 FORCASTER 2.02 New Horse prediction Prog
U839 AUDIO MAGIC 4-Proctracker V3,Exoctic ripper
U843 AUDIO MAGIC 8- Octamed player ect
U846 C64 emulator V3 (2DISK) C64 emulator/latest
U848 SPECTRUM EMULATOR V2- Spectrum emulator
U850 EAGLE PLAYER (2disk) the best music player.
U851 DELI-TRACKER (2disk) play all music format.
U881 SONIC DRUM KIT V2 Make drum sample
U882 DISK COPY Pack- collection of 10 disk copier
U883 OPTI-Utils 1-over 30 disk copier/Optimise ect
U885 INTUTION BENCH MARK V6.5 (Not Wb1.3) sysinfo
U886 COMPLETE WB UTIL (2DISK) very useful Util col
U887 DISK REPAIR KIT 4-include disk repair, undelete,softprotect, diskmate, sysinfo,ect
U950 STEREO-SCOPIC V2.a (not A5001.3)
This is the RAMDOM DOT STEREOGRAM generator
U951 FORTH PROGRAMMING (NOT WB 1.3)
U957 SCALA BACKGROUND (2disk) High quality image
U960 PROGRAME LOADER-New HardDisk menu
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U967 PRO-GAMBLE-Super Horse prediction programme
U978 DELUXE PAINT 4 BUDDY SYSTEM-(3) Get the most out deluxe Paint Instan on line for evry fuction
U981 VIRUS CHECKER V6.54 -AUTO UPDATE MONTHLY
U982 DIRECTORY OPUS V4 add Extra Command/BUTTON
U983 MAGIC WB & MAGIC MENU .Both Latest version
U986 VIRUS-WORKSHOP V5.1-the best Virus killer
U987 GRAPHIC-CONVERTER (2D) Convert picture ect
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U993 IMAGINE STUDIO V2.(2D) The best PD image (picture) processor available rival even the commercial costing hundres of pound. (not k1.3)
U969 POWER-CACHES Speed up disk loading.Access
U970 HARDDRIVE SECURITY II Large collection of HD scerity programe eg Lockout2.Password & many more
U971 HARD-DISK & FLOPPY DISK DOUBLER (Epu)
U973 CHEAT FOR 800 + GAMES, LEVEL CODE V3.1 (2)
U974 HD GAMES INSTALLER 2 install tops games to HD EG.ZOOL2, Rise Of the robot,Mortal Combat2 & more
U975 DMS V2.04 Pro. Crunch entire disk. (not1.3)
U976 MAGIC SLECTOR V1.4-Change Magic WB back drop
U977 MAGICWB ICON ARCHIVE (3) 1000's of MGwb icons
U998 X-PASSWORD-proctect your hard/floppy drive
U979 ICON ACHRIVE(3) 1000's of normal icon(any Amiga)
U994 TEXTURE STUDIO. Render Various Texture for use with Imagine 3 ect req FPU.(not 1.3)
U995 PRO-GAMBLES V2 must for all gamblers.
U996 BOOKIE BEATER- gambling programe to win bookie
U997 HD GAME INSTALLER 3. install more game to HD
U998 EXOCTIC RIPPER V3.b Latest ripper
U999 HD MEMORY (new collection) require MMU
U1000 MAGIC OPUS VOL 2 & 3 (2D) more Dopus button
U1001 CAR DATA ANALYST-check your car performance
U1002 TURBO CAT-(WB 2&3 only) catalogue creator
U1003 LOTTORY WINNER V2-new version
U1005 BASIC-ELECTRONIC-Teach all about eletronic
U1006 LOTTO LUNACY V2 Update latest lottery predictor
U1007 ALL NEW HARD-DISK & FLOPPY DISK TOOL 2(2D)
U1008 HARD-WARE PROJECT 2 (2) Build dozen of project even how to fit Amigas in a tower case
U1009 DATA ALERT 3-explain why your computer crash
U1010 WB2.04 INSTALLER-install A500+/A600 to HD

PUZZLE GAMES II

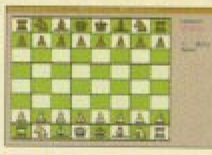


Massive collection of the best puzzle games ever released including some of the classics like Nubic Cube, Picture Puzzles etc, much too many to list. Very popular.
5 disk pack only £4.99



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COLLECTION OF THE VERY BEST SHOOT EM UP
MUST FOR ANY GAMES PLAYER
5 disk pack only £4.99



BOARD GAMES II

The very best board games ever released. This pack contains the very latest, CHESS, CHECKER, SCRABBLE, MONOPLY & DOMINOES recommended.
5 disk pack only £4.99

Printer Pack

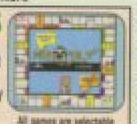
5 disk pack with all the latest printing progra specially designed for printing out high qual documents, text & pictures etc and it is even to print out A5 Booklets (very handy). Easy to
A must for any Amiga owner with printer
Printer Pack (5 disks) only £4.

GAMES

G222 MEGA 21 GAMES amazing 21 games
G235 DRAGON-CAVE brillant 3D puzzle games
G240 QUADRIX very addict excellent
G242 TAKE EM OUT like to Operation wolf
G253 DESTINE MOON BASE Arcade conversion
G272 TANK BATTLE 2 player tank battle game
G278 ARCADIA the best ARKNOID clone
G300 Q-BOID cross TETRIX and INVADERS.
G303 DIMENSION X 2 player LIGHT CYCLE GAME
G310 NEBULAR Excellent 3D shoot em up
G316 GALACTIC Excellent 8 levels arcade
G317 HYPER-BALL Speed ball +level editor
G320 GHOST-SHIP Very good 3D adventure
G325 BATTLEMENT hunch back of notcha
G326 MEGA GAME COLLECTIONS III 3 top games
G329 MADONNA NUDE PUZZLES for 18+ only
G331 GRAVITY massive space exploring game
G333 CYBER-NETIC Brillant 8 way blaster
G334 DONKEY KONG -(A1200 order code AGA296)
G335 CRAZY SUE II- best platform to date
G342 SUPER SKODA CHALLENGE (& track editors)
G344 STAR-TREK similar to RAID2 but harder
G355 DOODY very cute & extremely addict
G356 WONDER LAND amazing graphic recommed
G362 DELUXE PACMAN + best pacman ever release
G367 CARD GAMES collection
G368 WIZARD-DOMAINS-dugeon type games
G370 KALATRIZ (notA1200) arcade tetriz clone
G373 AIR ACE II Very playable shoot em up
G384 OTHELLO best PD version
G386 MOUSE IMPOSSIBLE very addictive puzzle
G390 TETREN most polish Tetriz ever release
G392 STRIKEBALL brillant base ball clone
G399 TRAILBLAZER brillant (not A1200)
G400 FIGHTING WARRIOR like street fighter
G404 DOMINOES only one of it kind on PD
G406 TOTAL WARS -strategy like chess in space
G411 BATTLE CAR 2- 3D car racing
G431 NESTER CARD GAME- hours of fun for a quit.
G435 ROULETE amercan roulete excellent
G438 TRAILBLAZER 2 C64 conversion
G441 E-TYPE 2- very good asteroid great graphic
G443 OLEMPIAD DISK (2D) Olympic sport events
G445 DESCENDER GAME tank, search & desender
G446 OBLIDOX excellent Arcade/Puzzle game
G448 PARACHUTE JOUST quite playable
G455 CASTLE OF DOOM VG graphic adventure.
G460 WIBBLE WORLD GIDDY Large platform game
G467 CASH FRUIT- good fruit machines
G478 AMOS CRICKET cricket games
G488 EXTREAM VILONCE 2 player battle out
G489 ENGIMA MACHINE very challenging puzzle
G490 MEGA BALL 2 very playable break out clone
G491 BOUNCE & BLAST brillant platform 10/10
G492 ZOMBIES & DEFENDER 2 fantastic games
G494 MERCANERY SIMULATION 3D wars games
G499 LIFE -simulation very interesting
G500 TRANSPLANT dozen of level fast arcade.
G501 KLAWZ THE KAT-great platform games
G511 HIGHWAY HELL like SPY HUNTER on the C64
G531 OPERATION FIRESTORMS-brillant
G534 CASTLE KUMQUAT similar to Alien breed
G535 BLACK DAWN brillant graphic adventure
G538 MORIA 5.4 The latest Dungeon & dragon
G539 BRIDGE Good version of bridges
G540 ORK ATTACK bloody adventure

101 GAMES

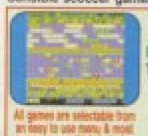
PRICE ONLY £9.99
Brilliant collection of over 100 of the very best of PD games includes INVADER 2, Tetris, Monopoly etc. Much too many to list. Very easy to use menu system. Most games come with full playing instructions.
MUST FOR ANY GAMER PLAYER.
COMPATIBLE WITH ALL AMIGAS



All games are selectable from an easy to use menu & most games come with full playing instructions

G541 REBOUNCE 2 player futuristic breakout
G542 ROAD TO HELL briliant car racing
G544 SUPERTOM CAT New vertical shoot em up.
G545 KUNGFU CHARLIES mix with platform brill.
G546 RAID 4 latest vertical scroll shoot em up
G546 QUIZMASTER very good quiz programe
G552 ELEVATION games base on lift ??
G560 IMPERIAL WALKER -Base on STAR WAR games
G567 STARBASE 13 (2D) Bril like MONKEY ISLAND
G657 AMOS LOADSA MONEY best FRUIT-MACHINES
G659 MR MEN OLYMPIC (2D) many event to complete
G660 4 L.C.D DREAM 4 small hand held games
G664 NEIGHBOUR GAMES (2D) base on the TV series
G665 TIME RUNNER (WB2/3) Brillant graphic
G667 GOLF (2DISK) One of the first & decent GOLF
G668 AMOS CRICKET 2 New Amos cricket simulator
G669 MUGSY REVENGE gangster graphic adventure
G672 JIGSAW (2DISK) very playable jigsaw games
G673 BOBBY GARDEN + DIGGER (NEW) Brillant
G674 HIGH OCTANE Fast car racing (notwb1.3)
G675 TIME RUNNER amazing graphic adventure
G680 SPACE-INVASION 2 - Fantastic Galaxain
G681 AUTOMOBILES - PD version of SKID MARK bril
G682 BANDIT MANIA - Brillant fruit machine demo
G685 PROJECT BUZZ BAR -Brillant asteroid
G689 GUN FIGHT (not A500(1.3)
G690 THE REAL POPEYE 64 (a500 1.3 only)
G692 SYSTEM DEFEND-Brillant Defender clone
G698 AMIGA-BOY-Game boy emulaor + tetriz
G732 DETHELL IN SPACE. Recommed.
G735 OVERLANDER Brillant arcade MOON ALERT
G737 SERIOUS BACKGAMMON The best in PD BG
G771 STAR WOID (2 Disk) brillant Thrust
G772 UN-SENSIBLE SOCCER very similar to Sensible scoccer games. RECOMMEND

101 GAMES 2



All games are selectable from an easy to use menu & most games come with full playing instructions

PRICE ONLY £10.99
This is the very latest all new 101 games compilation pack 2 containing some of the very best in PD games like Zeus, Wonderland, Dragonflies etc. Much too many to list.
COMPATIBLE WITH ALL AMIGAS

G773 FRUIT MANIA -Brillant Fruitmachine.
G774 TRICKLE TREAT -like DOOM on the PC
G775 FOOT-BALL MANAGER-new version
G782 SOLO ASSAULT 3D like Wing Commander
G783 SEED OF DARKNESS-Brillant graphic adven
G784 NANO FLY Superb explore game RECOMMEND
G785 THE GREAT GOLD RAID- very addicted
G787 ANT WAR V1.9 (LATEST) not 1.3
G788 ZENO-MORPH -Great grahic
G789 TASK FORCE very good MIND SHADOW clone
G790 GREEN FIVE Amazing 3D graphic like
G791 PROFFESIONAL BINGO CALLER
G792 MARTIAL SPRIT like Street fighter II
G798 6 EXCELLENT CARD GAMES collection
G809 BLITZ 2 fast action shooting games
G810 EXIT 13 Brillant puzzle
G811 TEMPORAL MISPLACEMENT-graphic adventure
G812 ADAY AT THE RACE-V.Goodhorse racing games
G820 BOULDER ORIGINAL with 80 level
G821 BOULDERDASH cave/level Construction kit
G822 BOULDER COLLECTION 2/3 160 level (2disk)
G839 BOULDER PACK with 640 level on 8 disk
G860 ALIEN NET WORK-new Spacing invader
G862 BATTLE FORCE excellent text adventure.
G863 GNU CHESS the best chess with 10 level
G866 SWORD OF YIGG Graphic adventure
G867 POWER-TETRIZ for 1 or 2 player
G868 SUPER SMASHING TETRIZ
G870 CHESS II & CHECKER One of the best around must for all CHESS or CHECKER player
G871 GRAVITY FORCE 2 1 or 2 player thrust clone

G872 SCHNEBITZ Commercial quality puzzle games
G875 DELEXE GALA v2.3(new) add new feature & bouns gamme + 2 player RECOMMEND. get it now
G876 THE KRILLIAN INCENDENT like ELITE2/Epic
G878 QUANTUM-Maze colect & escape type games
G879 RAG TO RICHES - like MONOPLY

NEW 101 GAMES PK 3

New 101 pack 3 contains over 100 games, runs on all Amigas, only £11.99 offer buy any 2 packs together & receive a free £4 token for use with next order. This offer cannot be used with any other offer current & subject to condition apply.

G884 WIPE OUT-mindless blasting games
G885 GODZILLA Another shootem up
G886 SUPER MEGA FRUIT- All new Fruit Machine
G888 DRIVING MANIAC 3D (fill vector like Indi500) car racing- very fast. RECOMMEND
G889 PLANET FALL - Luner Lander clone
G891 BUCK TOOTH ADVENTURE Very good multi level shoot/collect em up RECOMMEND
G892 PENGO 2- Maze type games. Recommend
G893 SUPER OBLITERATION Blast asteroid very similar to PANG 2 lot of weapon RECOMMEND
G894 SUPER INVASION II -New SPACING INVADER
G897 THE SHEPERD Brillant POPULUS clone. REC
G898 ALIEN GENOCIDE (2) Shoot aliens set in space.
G899 PUCKMAN. One of the better PacMan arround.
G900 SUPER-BATTLE ZONE.3D (not WB1.3)
G901 M*A*S*H a (ANTWAR 2) play very similar to LEMMING & WORM, with load of Weapon (Brillant)
G904 LAST SOLDIER (2) multilevel platform games
G905 CBBERTECH (2) exclient ALIEN BREED Clone
G906 HANGMAN any one for a game?
G907 ACE SPACE nice Platform games
G908 COLOURMANIA slide/Klatriz type puzzle games
G910 HARRY-HADOCK- Brillant platformer games
G912 MANGLE FENDER -Brillant, Smash up other car/tank ect to win, extremly addicted. get it
G913 ARCADE GAMES CLASSIC Vol 1 & 2 (2d)
G914 HELICOPTER-play like Desert strike
G915 COW WARS. Very addicted 2 player games
G916 ISLAND -Play like Monoply.
G919 COP THE LOT Pro Latest Lottery preditor
G920 LOTTERY PROFFESIONAL This version use
G921 MONOPLY. (board games) The best version
G922 JET WILLY 3 - excellent platform games
G923 FLAMMING ENGINE-Superb car racing
G924 POWER MACHINES. Grahicaly brillant shoot
G925 SUCIDE-MACHINE Operation wolf style
G926 ZAXXON 3D Superb C64 3D blaster games
G927 BOING V3. Great platformer, recommend
G928 PUNTER-Animate horse racing games
G929 ARCADE JIGSAW (2d) include LION KING
G930 WHEEL CHAIR GLADITOR-Very fun to play
G931 NIMBLE-Brillant New arcade puzzle.
G933 BLACK DAWN 3- THE NEW BEGINNING (2) Superb 3D adventure. RECOMMEND
G934 R3 ROCKET (NEW)very good rockets games
G935 BATTLE SHIP- the finest PD version
G936 LAST LAP - Fast car racing

GAME HINTS & CHEATS II

Play your favourite game for age? but can't get to the end of level or game? Having problem with some games? 5 disk pack with 1000s of games cheat/help/level code action replay poke etc., should help you finish many games - suitable for all Amigas only £4.95.
Update & release on 28 July '95

EDUCATION

E001 KID PAINTS. superb paint special for kids
E002 COLOUR IT brillant computer colouring book
E003 TREASURE SEARCH find the hidden treasure.
E004 LEARN & PLAY I(not A1200)many maths & games
E005 LEARN & PLAY II more education programes
E006 SPANISH TRANSLATOR Spanish<-> English
E008 MR MEN (WB1.3only) brillant story adventure
E009 ASTROMY tutorial on solar/star ect system
E010 SIMON & SPACE MATHS maths & simon games

E011 EDUCATION PACK 1

pack with dozens of education programs ranging from maths, science to educational games recommend suitable for any Amiga. 5 disk pack only £4.95

E019 DINOSAURS teach you all about Dinasaour
E020 WORLD DATABASE require (2+meg)
E021 STORY LAND II interact puzzle games rec
E022 LANGUAGE TUTOR teach you 4 language
E023 TALKING COLOURING BOOK talking Dpaint bril
E024 EASY SPELL II improve your kid spelling
E025 SCRABBLE require 2-4player. brillant
E026 WORDS can help you solve the crossword
E027 OSWALD Very colourful large cartoon game
E030 EVOLUTION breed your own hybrid
E031 IQ TEST + IQ GAMES pack 1 excellent
E033 TYPING TUDOR very good typing tudor
E035 CHESS HELPER help/teach how to play
E036 BASIC TUDOR learn about Amiga basic Prog

EDUCATION & 21 GAMES PACK

Collection of the very best of education programs and a 21 games pack, a very popular combination for kids (run on all Amiga) 5 disks pack only £4.95

E038 AMIGA TUTORIAL 7 part tutorial
E039 COMPUTER CARE how to care about AMIGA
E040 GUIDE TO LOWER BACK PAIN tutorial the spine & how to avoid back pain. (recommend)
E041 KID ALPHABET display all alphabet letter
E042 FRACTION & SILOUEST maths & games excellent
E043 MATH MASTER teach/test you more on maths
E044 STEAM ENGINE V2 graphic & tutorial
E045 PETROL ENGINE tutorial & animate graphic
E046 GAS TURBINE ENGINE tutoria & anim graphic
E047 STIRLING ENGINE tutorial & anim graphic
E050 DREAM FOR ANGEL explain the meaning of dream
E051 INVISIBLE WORLD brillant recommend
E052 FISH TANK turn your amiga into a FISHTANK
E054 DEMOLITION MISSION simple game for kid
E055 WORD POWER solve crossword puzzle ect good.
E056 WORM HOLE simple game ideal for children.
E057 APPLE CATCHER catch falling apple brillant
E058 CROSS MAZE & CRYPTOKING 2 excellent kid games
E059 VERB QUIZ find the word & it related. Bril
E061 KING JAMES BIBLE (4d) complete bibles excel
E066 TARROT clairvoyant in a instance
E068 GALLOW fancy a games of hang man?
E070 MATH DRILLS teach all basic math skill Vgood
E071 ERROR INFO give info why your amiga crash
E075 WORLD-WAR 2 graphics tutorial on WORLD-WAR releate program eg simulate Starprobe/ moleocube/ ect
E076 SCIENCE an excellent collection of science ideal for all who interesting or studies in science recommend. this pack come on 4 disks
E080 KIDPRIX great children paint programme.
E081 ASTROMY PACK- This is a mazing collection of programe relate to astromy. can help to locate certain or star position ect. must for anyone who studies astromy or hobby. great (4DISK)
E073 PICTURE & LETTER learn to reads- first step
E074 AMIGA BEGINER GUIDE tutorial on Amigas
E085 NODDY PLAYTIME demo >Very good
E080 KID PIX more excellent paint programes
E081 D.T.P FOR KID easy to use, excellent
E093 SING A RYHMES sing a song
E094 HIGH WAY CODE TUTOR question on highway code
E096 READ & LEARN (2D) THREE LITTLE PIGGY Story
E097 BACK TO SKOOL vol 1 collection of the best
E098 BACK TO SKOOL vol 2 in education programe
E099 BACK TO SKOOL vol 3 & games. RECOMMED

E100 LITTLE TRAVELER infomation on world wide
E101 WORLD GEOGRAPHY world with map & text.
E103 DISCOVERY OF THE ATOM. tutorial on the Atom
E104 DESK TOP GUIDE TO MUSIC(3D) guide & tutorial
E107 TRUMPTY FIREWORK ALPHABET Very entertaining way to teach your child the ALPHABET
E108 HOW TO DELOVOPE PHOTO 1 (2) Excellent
E109 MR MEN OLYMPIC (2D) many event to complete
E110 CULT TV DATABASE (2D) info on early TV series
E112 HOW TO DEVELOPE PHOTO 2 (2) delevope your
E115 ELETRONIC WORLDS(3D) Complete KJames BBL
E116 HOW THE EARTH BEGAN-theory how the BIG BANG explode and create all the star & galaxy
E118 WORKBENCH 2 tutorial on Work Bench 2
E119 DINO WAR Quiz on dinosaurs
E120 JUNIOR MATHS Great learning aid for teach kid on the math subjects. RECOMMEND
E121 PICTURE PUZZLE brillant JIGSAW type games
E122 WORD FACTORY Brillant, teach kid words

KID DISKS 1,2,3,4,5

Excellent collection of education programs, Ideal for teaching kids various subjects while retaining the fun & game element. 5 disks only £4.99 or order seperate for only 99p per disk. Order Code KID DISK & No. 1-

E125 JURASSIC PARK lots of info on dinosaurs
E126 CHILDREN SONG 2 contain 5 excellent song
E127 MING SHU (A500 only) Bril Chinese Astrology.
E128 ASTRO 22 PRO.V3-The latest astrology program that accurately calculates the position of the planet, eclipe, zodiac position etc. Recommend
E130 FRENCH VERD TESTER should help you with french
E131 CULT TV DATA BASE II (2 DISK) info on early TV
E132 WORLD HISTORY BOOK
E133 LITTLE TRAVELLER II (2) Infomation on world wide
E134 X-FILES-Guide to the TV series very interesting
E148 CHESS & TUTOR - FULL/teach you how to play chess
E150 INTERNET-FULL guide to internet & superhighway
E161 CLI & SHELL TUTOR (help) ideal for beginner
E162 DELUXE PAINT GRAPHIC TUTOR V 3 & 4 RECOMMEND
E163 JAPANESE - teach you the japanese language
E164 PAINT IT (not A5001.3) latest COLOURING BOOK
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AGA424 DREAM WALKER (2) Demos
AGA425 MYSTIC DEMOS(2) 95 excellent demos
AGA426 ORIGIN 2 (2 DISK), Amazing

SEE PAGE 1 FOR MORE SOFTWARE FOR YOUR AMIGA

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U341 LITTLE OFFICE - databases/wordprocessor/spreadsheet
U345 HOME BUSSINESS JOURNAL - Easy to use database
U357 BON APPETIT DATABASE many receipt.
U364 HOME ACCOUNT-Account program
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X96 HOT BABE 1
X97 HOT BABE 2
X98 HOT BABE 3
X99 HOT BABE 4
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public sector

Dave Cusick finds out which PD and shareware programs cut some rug this month

Now in a permanently bumper-sized four page flavour, Public Sector continues to bring you the very best wallet-friendly software. Amongst this month's hotch potch of the top notch you'll find everything from educational disks and indispensable applications to thoroughly absorbing games.

Worthy of mention but unable to squeeze into the packed PD pages this month is the labour of love that is The World Of Football Icons, available from 17 Bit Software (disk code 4051). It contains over 600 icons depicting practically every major soccer team kit (both club and international), as well as American Football and international Rugby strips. Whilst scores of uses for these faithfully reproduced kits do not exactly spring to mind, it's easy to see that a colossal amount of effort has gone into producing this disk.



Add some colour to your Workbench with these Football Icons... and then wonder why you can't recognise what all your programs are

TIME & TIME AGAIN

Since I reviewed Taskbar 4.29 last issue, author Robert Ennals has continued developing it at a phenomenal pace. At the time of writing the current release available on Aminet or from a PD library near you is version 5.2, which features a variety of bug fixes and some new features, such as a tidier display and the option of avoiding windows owned by certain tasks. If you are a Taskbar fan and you have Internet access, you can keep up with the latest developments at http://members.aol.com /ennals/taskbar.html.

COLOURS

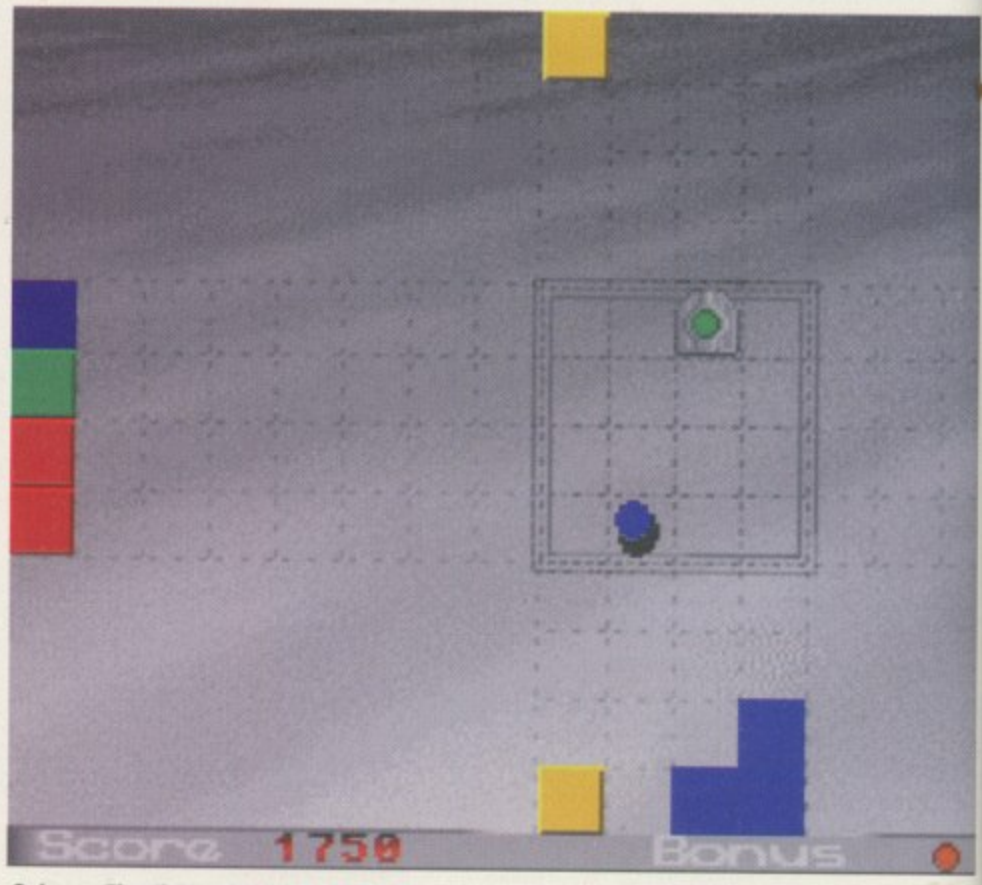
Programmed by: Carsten Magerkurth
Available from: Carsten Magerkurth

Described by its author as blending elements of classic games such as Breakout and Tetris, Colours is an immensely diverting puzzler.

It's rather difficult to describe in words, but a quick glance at the screenshots should help you understand what's going on. Your sprite, positioned on a four-by-four platform in the middle of the screen, must shoot balls at advancing rectangular blocks. These blocks may be one of four colours, and your sprite itself can only destroy one colour of block at a time, depending on the colour of ball you are firing at that moment. You can change the ball colour by bouncing it off a block colour you cannot destroy, whereupon the block will swap colours with your ball. With me so far?

Whilst you can simply destroy blocks one at a time, you will score far more points if you destroy lines of blocks of the same colour. Because you can change the colours of the advancing blocks, it is possible to deliberately change the colour of certain blocks and save lines of them for a while so that you can destroy them together and score more points.

If you didn't understand a word of that lot, then I reckon the best way to find out about Colours is to get hold of a copy. It can hold the attention for hours – and that's not just because individual games can last for ages once you get the hang of it. Colours really is a genuinely entertaining game. It has quite attractive graphics, particularly apt sound effects, and copious quantities of addictiveness. As an added bonus, Carsten is offering *Amiga Computing* readers a vastly improved non-PD version of Colours. All you have to do to obtain a copy is send a blank disk to him and state that you read the magazine.



Colours: Fiendishly addictive, or something

GAME of the month

CHARLIE J COOL

Programmed by: Neil Cousins
Available from: 17 Bit Software
Disk No: 4065

This superb platform romp was originally due to be released as a commercial product until publishing problems got in the way. It's now resurfaced as a shareware product, with this demo version giving interested gamers the chance to decide for themselves whether to splash out a tenner on the complete product which features 28 levels of hugely entertaining runny-jumpy action. On this evidence, Mr Cousins should be getting a fair few takers.

The objective on each level is to collect a hidden key and then reach the exit. Along the way there are the usual nasties to avoid and coins to collect, and plenty of platforms to leap between, be they floating in mid-air, lodged in handy trees, or moving between bits of solid ground.

Charlie J Cool doesn't pretend to be anything stunningly innovative, but it's a polished product with beautiful graphics and suitably cheesy sound effects. It's been a while since a decent Amiga platform game appeared and this one most certainly fits that bill.

There are two flavours of Charlie J Cool, one for all Amigas and another for AGA machines, demos of both being included on the disk. I'd strongly recommend taking a look, because this is just the sort of absorbing action adventure keen gamers will be looking for.



Costing only a tenner to register but more polished than plenty of commercial offerings, Charlie J Cool must surely rank as one of the best value shareware games ever

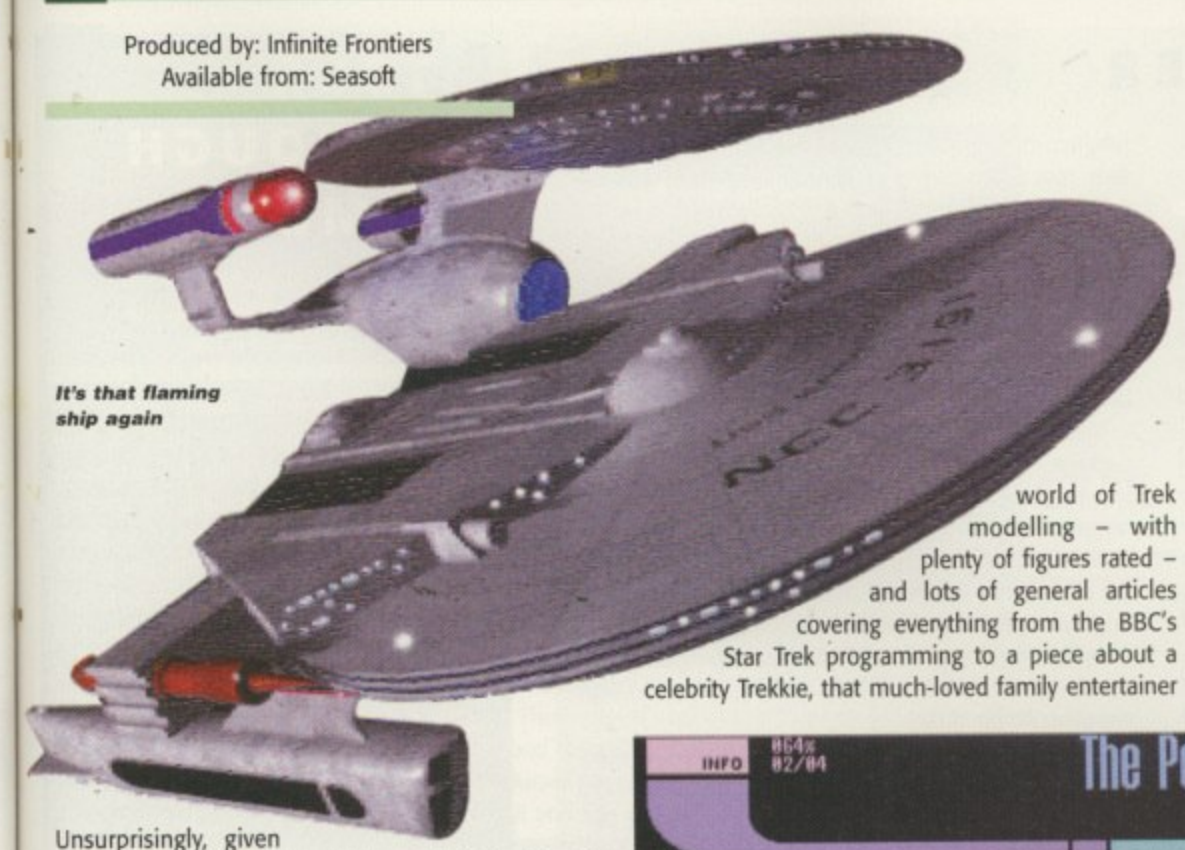
TALKING TO CLARRY

I want to hear from you if you have any program, whatever its purpose, which you consider worthy of review. Whether it will be freely distributable public domain, shareware or licenceware, if you feel it's of sufficient quality to merit coverage then stick it in a jiffy bag or padded envelope and send it in with all haste. Although Public Sector receives too many submissions to cover them all, I promise I'll at least look at your work – even if it's yet another Lottery program or Klondike cardset. It does make my job a lot easier, though, if disks are clearly labelled. Please also include a cover letter detailing the disk contents and price, and giving some basic instructions. The magic address is:

Dave Cusick, PD submissions
Amiga Computing, Media House
Adlington Park, Macclesfield SK10 4NP

FINAL FRONTIER #9

Produced by: Infinite Frontiers
Available from: Seasoft



It's that flaming ship again

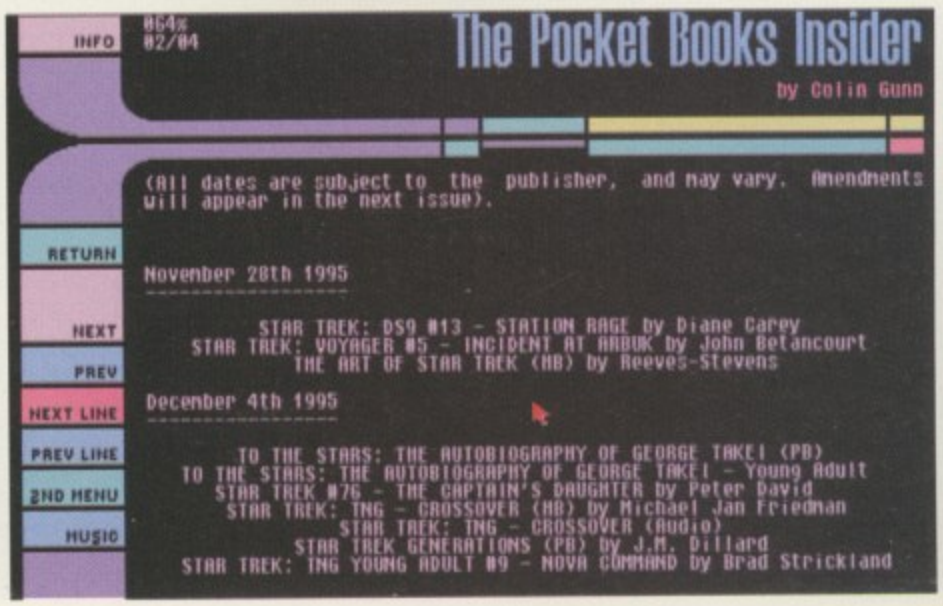
Unsurprisingly, given its title, Final Frontier is a disk-mag dedicated to all things Star Trek related. Issue 9 is packed with articles, is beautifully presented and fills three disks, so Trekkies are in for a real treat.

There's Trek Fiction, variable in quality but always featuring the famous characters from the various TV series, especially The Next Generation. A particularly light-hearted inclusion here is 'The Lost Episode? in which the crew of the Enterprise employ Microsoft's Windows to great effect in attempting to cripple the powers of a Borg starship, but are then threatened by the evil and extremely angry forces of the sinister Bill Gates.

There are also reviews of new Trek books and videos, a look at the latest developments in the world of Trek modelling – with plenty of figures rated – and lots of general articles covering everything from the BBC's Star Trek programming to a piece about a celebrity Trekkie, that much-loved family entertainer Jim Davidson. The Trek Art section includes a few decent images, which appear to be the work of some industrious LightWave-owning fans. There's even a convention section, with reports of recent events and news of forthcoming ones. If you're the sort of person who enjoys nothing better than attending seminars on Klingon battle tactics and dancing the night away in a disco full of people wearing wacky costumes and latex masks, then this section of the magazine will prove marvellous reading.

This issue is rounded off with a 'Generation' movie special, including write-ups of everything from the film itself through to the soundtrack album, images based on the movie and so on.

Whilst to non-Trekkies such as myself the whole thing is vaguely bemusing, Final Frontier would appear to cater extremely well for those whose life revolves around Star Trek in its many incarnations, and for those folks I'd highly recommend getting hold of a copy. And possibly a psychiatrist, too.



Hey, some people genuinely enjoy reading this kind of thing...

MAGIC SELECTOR V1.8

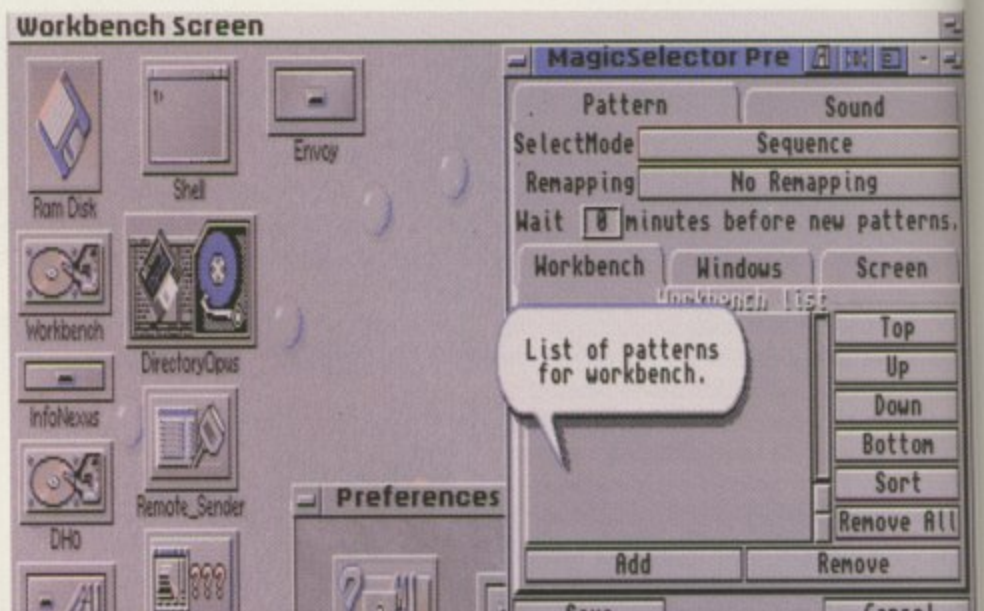
Programmed by: Oyvind Falch
Available from: KEW=II Software
Disk No: U1144

Magic Selector is designed for users of Magic Workbench who are looking for a little variety. It can be configured to load different MWB set-ups every time you reboot, either by working through a sequence or by selecting one randomly.

It is also possible to choose to have a sound sample played on booting, so, for instance, you could receive a personalised welcome message from your machine every time you turn it on.

Magic Selector is supplied with an attractive Preferences program which uses the ever-popular Magic User Interface. Setting things up to suit your tastes is a speedy process, and once you've dragged the program file into your WBstartup drawer, every time you boot your machine you can be greeted by a different Magic Workbench.

Admittedly, it is possible to go completely over the top when customising your boot-up procedure, a shining example of which must surely be Andy Maddock's Macintosh in the *AC* offices. It's never without an amusing, hard drive space-wasting intro sequence of some description, not to mention some garish desktop backdrop without any of the subtlety of the attractive MWB designs. But this sort of thing definitely impresses people and as such Magic Selector is surely another string in the highly configurable bow that is the Amiga Workbench.



Make sure your Magic Workbench isn't as ugly as Andy Maddock's, and add a few boot-time options to boot with Magic Selector

AMOS COMPILER

Programmed by: Europress Software
Available from: F1 Licenceware

The first in F1's new series of 'Commercial Ware' titles, the often difficult to obtain AMOS Pro Compiler has been licenced from Europress Software. It consists of the software and manual previously contained in the last Europress release (v2.0) but comes in a plastic wallet instead of a large box, and costs just £14.99 as opposed to somewhere in the region of £35.

The Pro Compiler can turn even the most sluggish of Amos programs into fairly nippy pieces of code. It actually works with every flavour of the programming language, meaning users of Easy AMOS and 'Classic' Amos can also reap considerable benefits from the software. The results it produces are leaps and bounds ahead of those the original Amos compiler is capable of.

The three disks in the package contain version 2.x of the compiler, an update to bring AMOS Pro up to the same standard, and some helpful examples and extras. The installation procedure is adequately explained in the manual, and a tutorial then leads you through some of the more impressive Pro Compiler features.

Using the Compiler itself is extremely easy, with the program having a distinctive clunky but colourful interface. Your efforts can be swiftly compiled either from the editor itself (if you're got AMOS Pro) or from the Workbench (with Classic Amos or Easy AMOS, or if you're low on memory). Pro users also get powerful additions like the option of squashing banks using the popular Power Packer library directly from the editor, and the facility to read instructions from the Shell command line that launched your program.

Various other handy extras add to the value of the package – for instance, it's now possible to create a booting disk for your creations with the minimum of fuss, rather than having to copy various essential files across by hand, a tedious task at the best of times. And best of all, the amos.library file (which used to be included in every single compiled Amos program, resulting in some huge compiled files for even relatively simple programs) can now be stored in and read from the Libs: drawer as with any other Amiga library.

Overall then, whilst it's of most use to Amos Pro users because of the extra packing commands, the Pro Compiler boosts the power of this programming language considerably and should have a space on every Amos coder's hard drive.



Inject a bit of speed into your Amos creations with the excellent Pro Compiler

A TOUR THROUGH TIME

Programmed by: Mike Austin
Available from: F1 Licenceware
Disk No: F1-126

Representing the entire history of the universe as a one mile long road, A Tour Through Time manages to be extremely informative whilst still holding the interest. The road of time is divided into 15 sections, spanning history from the Big Bang, followed by the appearance of basic life forms, through the dinosaurs and the evolution of mankind, right up to the present day (mankind's section of the road being a mere few inches right near the mile marker).

The author has done a good job of making A Tour Through Time easy to negotiate, with a main menu leading to three submenus, each containing detailed explanations of five time periods. The basic text contains highlighted keywords connecting it to various commented illustrations and diagrams which help to expand vague areas.

The language used throughout is not overly complicated, although some of the concepts explained are relatively difficult. A comprehensive glossary is included to help demystify problematic terms.

Although the program is aimed at children of eight years and over, it's one of those educational products that could teach most people something new. It's certainly more interesting than an ordinary textbook.

SLIDER 2

Programmed by: Joseph Carlson
Available from: 17 Bit Software
Disk No: 4045



In need of some ultra-frustrating puzzle action?

Slider: Can you see what it is yet? etc

Remember those little sliding puzzle games that used to knock around a lot? Sometimes immensely frustrating, they at the very least used to help while away long journeys and they were good for a quick fiddle with during bored moments every now and again.

This is an extremely accomplished computerised version of those puzzles, with stylish graphics and some excellent sound effects. Computerised slide puzzles could simply not be done any better than this.

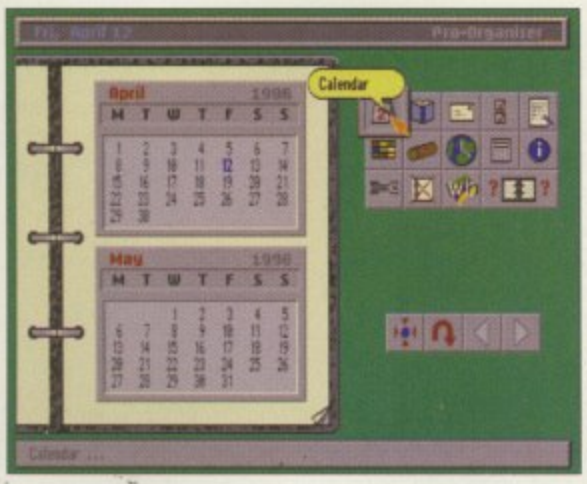
You can choose various pictures which will be split up and scrambled by the computer. The simplest picture is merely a numbered grid, but if you're after a greater challenge you can choose to play with country scenes, teddy bears, and all manner of other images. You can use your own images too, subject to certain restrictions set out in the accompanying AmigaGuide documentation.

A puzzle may be split into any number of squares (or rectangles), from four to sixty-four, and you can play with or without guide lines identifying the edges of blocks. There's a leaderboard displaying the fastest times in which the puzzle has been solved, but if all else fails the computer can be told to solve it, which it will then proceed to do in an embarrassingly short time. Slider might not exactly be a revolutionary gaming experience but it's an enjoyable way of passing the time which deserves a place on every hard drive.

PRO ORGANISER 1.2

Programmed by: Ali Prior
Available from: ProSoft

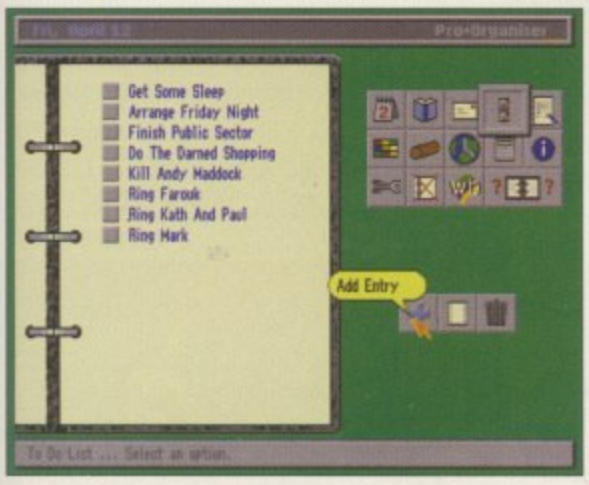
After the success of his excellent series of prediction programs including Pro Gamble and Pro Lottery, Ali Prior has moved into the world of Amiga utilities. It seems there is nothing this man can do badly, because Pro Organiser is one of the best programs of its kind that I've seen for any computer. It's incredibly easy to use, tastefully and intelligently designed, and brimming over with useful features.



Keep your life in order with the excellent Pro Organiser

Everything you'd expect to find in a standard desktop diary is beautifully implemented here. Appointments, anniversaries and so on can be quickly entered, and telephone numbers and addresses can be stored and searched either by entering a name or by simply checking all entries under any given letter of the alphabet. There's even a telephone number dial option. You can also check the time in various cities around the world, and even convert currencies (with an option to set the current exchange rate yourself for up-to-the-minute accuracy).

The presentation is immaculate throughout and the elegant interface makes the program a joy to use. There's even a guided tour which points out all the features, and a handy Bubble Help option like that featured in MUI applications.



So much to do, so little time

Pro Organiser is, of course, hard drive installable, although it works perfectly well from floppy disk. To obtain the full version you'll need to register, but a free demo version is available which you can obtain by sending a blank disk and a stamped self-addressed envelope to ProSoft.

BLUETONIC

17 Bit Software
1st Floor Offices, 2/8 Market Street, Wakefield, West Yorkshire WF1 1DH
(Tel: 01924 366982)
(Fax: 01924 200943)

F1 Licenceware
31 Wellington Road, Exeter, Devon EX2 9DU
(Tel: 01392 493580)
(E-mail: steve@dcandy.demon.co.uk)

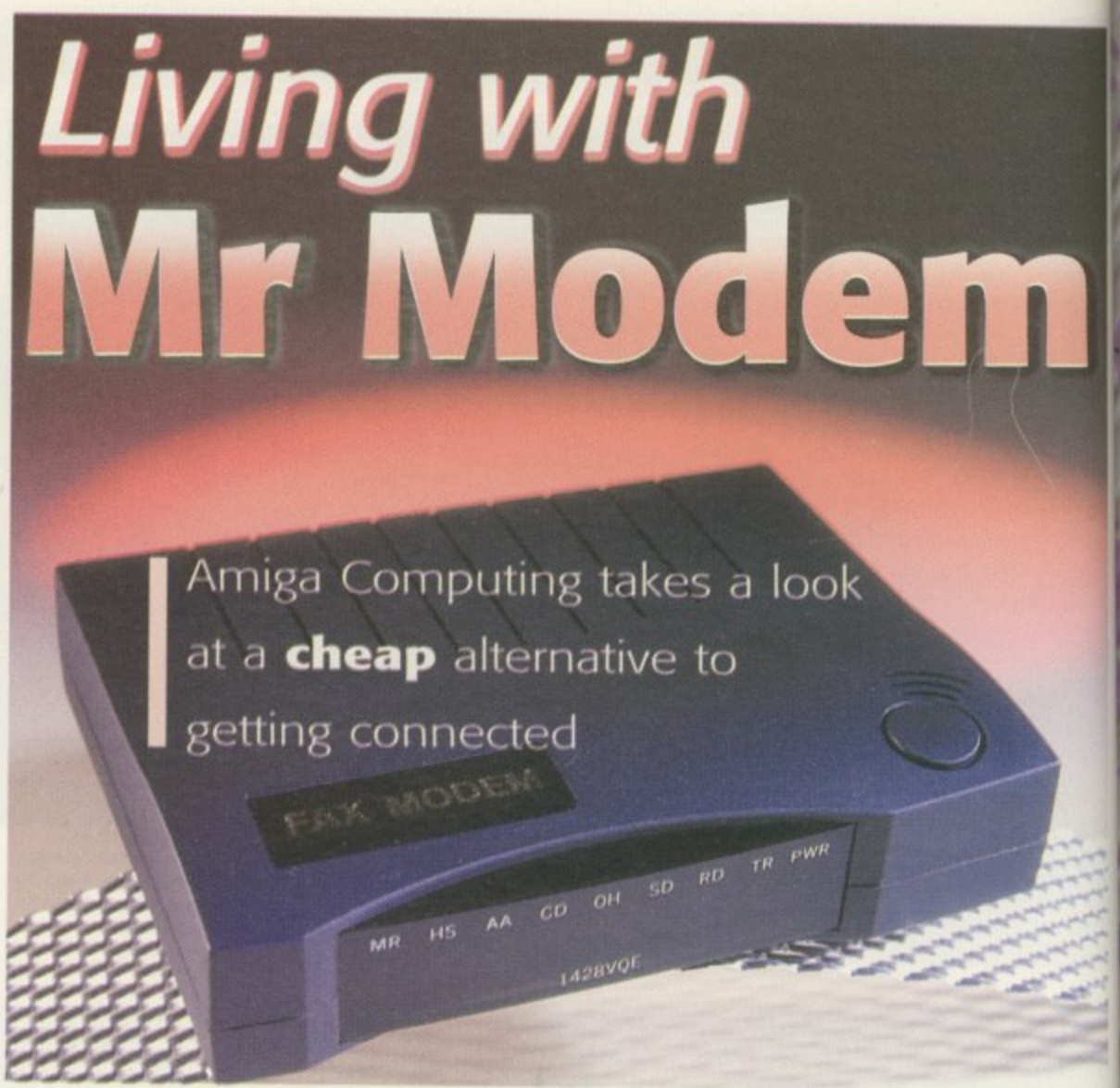
KEW=II Software
PO Box 672, South Croydon, Surrey CR2 9YS
(Tel: 0181-657 1617)

Carsten Magerkurth
Weissdornweg 2, 65719 Hofheim, Germany
(E-mail: 0619238164@t-online.de)

ProSoft
PO Box CR53, Leeds LS7 1XJ
(Tel: 0973 702718)

Seasoft Computing
Unit 3, Minster Court, Courtwick Lane, Littlehampton, West Sussex BN17 7RN
(Tel: 01903 850378)
(E-mail: seasoft@mag-net.co.uk)

Living with Mr Modem



Amiga Computing takes a look at a cheap alternative to getting connected

The arrival of Amiga Technologies' Surfer pack was quickly followed by HiSoft's Internet solution, and this led me to think that it would not be too long before there was a good old public domain Internet pack. And the first to hit the street is from OnLine PD.

Depending on your situation, OnLine PD has a number of options you can choose. For the first timer they sell a 28.8K modem along with an 18 disk Internet and BBS starter pack. For people who already have access to a modem, the software pack can be purchased separately – either the full 18 disk pack or a cut-down 12 disk version that has only the Internet software.

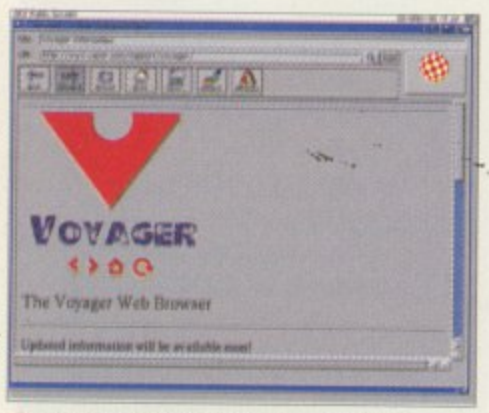
The actual modem you get is a new model from Datatech and is your usual high speed 28.8K modem. Under good conditions you will get binary transmissions of just over 3K/s, and text can typically be received at 4.5K a second thanks to the normal MNP data compression.

As with most new modems the Datatech can transmit and receive both class 1 and 2 faxes. Luckily, AmigaFax is included with the software pack so you can take advantage of this from the start.

Approval

The modem itself is very small and well styled, apart from the cheesy 'Fax Modem' label stuck on the top of it. There are the usual ports in the back including a through socket for a phone. It is BABT approved and also has the new European CE approval, which means all the cables and the modem itself work within some interference tolerances. OnLine PD has also thrown in the Amiga to modem serial cable and a double phone socket converter so you can have your phone and modem both connected.

The software pack that comes with the modem does supply you with all the programs and files you need to get up and running on the Internet or BBS-ing. The most important part of the software pack is the AmiTCP v3 archive. This comes on two disks and is archived, and you will need to extract both parts of the archive yourself into the AmiTCP drawer. Once installed there is AMosaic and an early demo version of iBrowse which you can use to try out the World Wide Web. GRn is also set up for accessing news groups.



Once you have got AmiTCP running you can try out the Web and get yourself an up-to-date browser

There are quite a number of other programs such as AmiTCP front-ends and on-line meters to show how much money you are spending. There are also a couple of terminal programs with which you can use the rather overlooked area of bulletin boards.

If you are going to install all the software you will need a good few megabytes free on your hard drive, and if you start going mad down-loading programs and files then something more in the order of 20Mb free would be wise.

As a way of getting into Comms, the actual pack has both good and bad points. It gets off to a great start with a very good modem at a very competitive price. The actual software has mixed blessing – some is ready to run while some has to be extracted from floppy by hand, something novice users are going to struggle with. Some sort of extraction script would have been much appreciated. An AmigaDOS script asking the user where they want the archive extracting to does not take up much room, and I think some sort of accompanying documentation should have been included.

Reservation for Mr Modem

Overall, most of my reservations are about the software in the pack, such as AmiTCP. This is not OnLine PD's fault as this is really the only available choice, but I think it would have been better if OnLine could have put in a little more help for the novice user, for which there are a good few potential problems.

The modem, on the other hand, is excellent and very well priced and you could start using it for BBSing straight away using either JR Comm or Dream Term. Finally, as a bonus you can get 10Mb worth of free downloads from OnLine PD's bulletin board.

Jargon Box

BPS – Bits Per Second, a measure of how fast a transfer is, using the number of single bits received a second

CPS – Characters Per Second. Another measurement of transfer speed, this time measuring the number of bytes received a second

AmiTCP – an Amiga implementation of a TCP/IP stack that allows your Amiga to communicate over the Internet

Internet – a worldwide network of computers that's a bit slow really

BBS – Bulletin Board System. A computer that you can contact over the phone and do all sort of things.

Bottom line

Requirements

RED *essential* | **BLACK** *recommended*

2.04 Workbench

4 Mb RAM

5 Mb hard drive

10 Mb+ hard drive

Product details

Product	Mr Modem
Supplier	OnLine PD
Price	Mr Modem + pack – £159.99 18 Disk pack – £12.75
Tel	01704 834335

Scores

Ease of use	72%
Implementation	80%
Value For Money	95%
Overall	89%

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Laser guidance

Hey you. Look at our **bumper** crop of CD-ROMs this month. Our round-up rather surprisingly features no pictures of birds. Oh no!

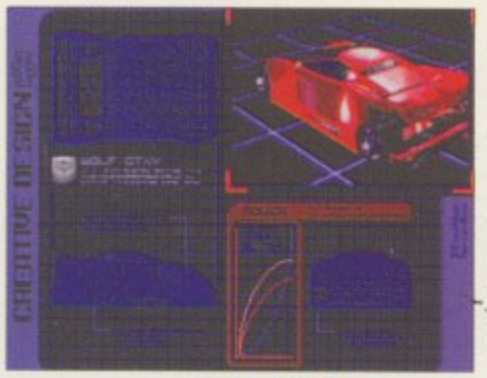
SCENE STORM



Woo! How we long for CDs like this. Oh, we love them. They're just the best. If you study the form of the demo directory on Aminet you shouldn't bother thinking about a purchase here.

The CD is crammed full of demo-type productions from 1995/96. The difference this time is the fact that rather than viewing other people's work and usually saying "Ooh that's nice", you can now sit down and make your own as a full programming suite is provided on the CD. Nice.

All the latest slideshows, music disks, magazines and tutorial programs make an appearance, so the whole package is pretty much up to date. The interface is all pleasantly laid out with software ready to run, so there's no need for hefty de-archiving sessions with a lot of CDs. Overall, it all turns out to be quite a nice package, and anybody with a remote interest in mega demos and all things alternative and individual will find this CD good value for money



This is a car demo, featuring a car. A red one. Sports I think. Nice isn't it?

Bottom line

PRODUCT DETAILS

Product:	Scene Storm
Supplier:	Active Software
Price:	£19.99
Phone:	01325 352260

SCORES

Ease of use	87%
Implementation	83%
Value For Money	89%
Overall	89%

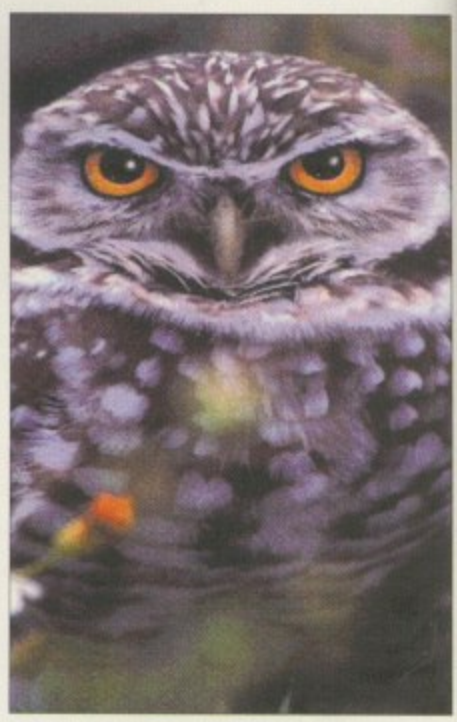
MAGIC WORKBENCH ENHA



When you use Workbench all the time it can be quite annoying if you have to use it while it's bland. So what can you do?

Well, if you buy this CD for a start you will be able to 'tidy up' your Workbench using small hacks which let you alter the way it looks and feels forever. If you are still using operating systems 2.04 to 3.1 then you really must think about Magic Workbench.

For example, after taking advantage of using this CD on my A1200 I had to test out the compatibility of a piece of software with the A600. When the HD booted up it looked so bland it was unbelievable. I found I was using quick keyboard shortcuts for programs that weren't even installed. A



Hang on. When I clicked on the directory 'Birds' I was expecting some swimsuit action. Darn!

MOVIE MAKER: SPECIAL EFFECTS VOL 1



It's usually a childhood dream to be a movie maker, standing in front of an all-star cast ordering them about like slaves. What a life.

You too can be the biggest thing to storm into Hollywood with John Pasternak's special effects which will teach you how to create fake wounds and all things movie-like.

As this is the first volume I assume all the special effects are pretty basic, so you won't be creating any multi-million pound explosions just yet.

The whole interface is designed around an in-car cassette deck (?) which is supposed to be a video – I'm not sure about this. On top of it is a massive television on which you can watch certain video clips of various special effect methods. They are as basic as designing storyboards and generating ideas but there is also the more physical side such as making fog and fake blood.



This is entitled 'How to use a pencil'. Nah, only kidding – it's about storyboards, so there you go

The problem with the CD is that the actual content is not as informative as it could be. I know that if I sat down ready to start a film production it's just common sense. Making films should be a free experience by learning from your errors – if you went by the book you'd never discover anything new.

However, if you are into movie making it is quite handy to see the CD present you with ideas for making props and materials – although there's nothing you wouldn't find in a good movie book.



The main menu is all nicely laid out and shows all the options. There's also a woman who talks all the time. Great

Bottom line

PRODUCT DETAILS

Product:	Special Effects Vol 1
Supplier:	Epic Marketing
Price:	£29.99
Phone:	0500 131486

SCORES

Ease of use	85%
Implementation	89%
Value For Money	88%
Overall	88%

IHA NCER

evable. I shortcuts stalled. A



nightmare scenario, I trust you'll agree.

The CD contains new icons, textures, background patterns, games, comms, patches, sounds and everything you can possibly think of involving both the look and feel of Workbench.

Why should you stick with a grey background when you could have leopard skin! Buy it today.

Bottom line

PRODUCT DETAILS

Product:	Magic Workbench Enhancer
Supplier:	Epic Marketing
Price:	£17.99
Phone:	0500 131486

SCORES

Ease of use	90%
Implementation	89%
Value For Money	90%
Overall	90%

TOOLS UNLIMITED: BLANKERS



Tools Unlimited is a CD which contains an unlimited amount of tools. Well, that's not strictly true as the CD can only hold around 640Mb. So why on Earth is it unlimited? Oh well, never mind.

This edition is based around the pretty much pointless screen blankers for computers using a high screen resolution which, if left continuously on-screen for a certain amount of time, would result in that particular screen burned onto your computer. So basically you would always see that screen faintly in the background.

This CD contains loads of blanker packages to use for blanking your screen – what else. Each one ranges from just a black background with some text on to a full scale mega demo-type thing which whirls about with a module, scroller and all sorts.

It doesn't matter how you look at it – each one gets blander and blander every time you leave your Amiga, and if you use it in the office like us, when you return you can guarantee you monitor has either been switched off or the sound is turned down. And that's because screen blankers are bland. Oh, alright, if you're desperate for some kind of blanker I suggest you check out the Aminet series because you will always find something on there as well as tons of other hacks. In my opinion a CD full of blankers seems to be a waste of money as you only end up using one anyway!



Most of the packages use the same principals behind screen blankers – rarely do we get an original one

Bottom line

PRODUCT DETAILS

Product:	Tools Unlimited: Blankers
Supplier:	GTI
Price:	Etba
Phone:	+49 6171 85937

SCORES

Ease of use	86%
Implementation	84%
Value For Money	N/A
Overall	81%

The truth is out there

Tina Hackett sets out to see who **VIScorp** is and what it wants with us?

Just over a month ago we, along with the rest of the Amiga community, were amazed to learn that a company called VIScorp were after the Amiga. A Letter of Understanding had been signed between itself and Escom and it made its intentions clear – it wanted to buy Amiga Technologies off Escom and incorporate the technology into its set-top boxes. But it wasn't just the fact that it all came out of the blue like this. For one, no-one knew that Escom had any intention of selling the Amiga, for another VIScorp already had an agreement with Escom which licensed it to use the Amiga architecture in its set-top boxes, and as for the amount of money being estimated for the deal, well this made us even more wide-eyed as we wondered what was going on. Okay, so Escom had posted losses of DM72 million which, in March, it revised to DM125 million, but surely it wouldn't sell off the machine only a year after buying it? And what does VIScorp want with the whole company?

The World of Amiga was a few days away and this made tracking down anyone who could answer our questions nigh on impossible. Head Honcho's from VIScorp were travelling over to the UK and, as you'd expect, Amiga Technologies was gearing up for the show. However, we did manage to get some comments off Gilles Bourdin who remarked: "We have changed Mother companies because of the financial position of Escom. It was not in a position to hold Amiga Technologies..." A press conference was announced at The World of Amiga and this attempted to answer what we all wanted to know. However, precise details weren't that forthcoming – after all, it was early days and a deal had not yet been signed. At the time of writing this feature, the two companies have yet to sign on the dotted line as far as we are aware. We all wait with baited breath for the press conference on the 19 May which will outline the plans (this was originally scheduled for earlier this month but was postponed). According to those in the know, everything is ready to go ahead....

WHO IS VISCORP?

VIScorp is an American company founded in 1990. Many are past engineers from Commodore and others have vast experience in the interactive TV industry. We take a look at some of the key players.





The shopping experience will be brought into the home

CORPORATE CAPERS

William Buck – Chief Executive Officer
William Buck has been in the role of CEO since 1994. He has a long history of involvement in Interactive Television and worked to form IWN with NTN Communications, a top interactive television company. Buck also worked for another pioneering interactive-television company, ICTV, where he was Vice President for business development.

Curtis J Gangi – CEO
Bringing 16 years of experience in consumer electronics to his roles, Gangi worked on the CDTV project for Commodore International

Roger Remillard – Founder, Inventor and Member, Board of Directors
Mr Remillard is one of the founders of VIScorp and is the inventor of ED, the interactive TV. He has more than 10 year's experience of research and development in fields including telephony, television and computer communications. Before VIScorp, Remillard was a consultant in the communication industry, specialising in two-way rapid cellular telephony and data-radio communications.

Jerry Greenberg – Chairman of the Board of Directors
Greenberg is the co-founder and major shareholder of VIScorp. From 1982 to 1989 he was the sole shareholder and President of Leader Communications, the Chicago-based cellular phone and two-way radio company.

Also:
David Rosen – Vice President Business Development
Florine Radulovic – Director of Communications
Christa Prange – Controller
Raquel Velasco – Director of Sales and Marketing

We put VIScorp's Don Gilbreath, Vice President of Engineering, on the hot seat to answer all our pressing questions.



If VISCorp's main aim is set-top boxes, why has it bought the whole company when a licensing agreement to use Amiga technology was already in place?
It's part of a strategy. It's an economic decision. On the flip side, Escom was clearly having a tough time and VIScorp may have had an undesirable partner.

So Escom was up for sale then?
No, not so much up for sale but it had had a tough time, that was clear. You see, there might be people that VIScorp would not want to be forced partners with and get the licensing from.

The estimated figure for the purchase of the company is rumoured to be US $40 million. Why this much when Escom only paid $10 million)?
Both those numbers are crazy. Escom bought it at around the $10 or $12 million figure, although there were adjustments made. On our side the $40 million – well, there is still some diligence happening. We can't say much about the deal but it's not a case of write a cheque for that amount. Don't forget that the inventory is more now too.

Where will Amiga Technologies' main Headquarters be when the deal happens?
It's a little early now. Right now VIScorp is very decentralised as a company. There are facilities in Japan and all sides of America. Clearly it will have presence in Europe because that's where a lot of the activities are but it's not clear at the moment.

Will all development take place in America?
VIScorp actually has simultaneous development going on in Japan as we speak. In the States it has some chip work. VIScorp wants to do stuff where the most experienced people are.

Can you confirm that development of new and existing Amiga models will continue?
Absolutely, we can't say what exactly but by the 19 May the strategy of how this will happen will be opened up.

Can you reassure us of this when you state the main aim is set-top box technology?
Well, we would hope that Escom has kept the high-end going, the computer side, because that draws to each other – the set-top business, the development and high-end community all work together as a triangle.

What is VISCorp's company background? Has it always been its ambition to create set-top boxes with Amiga?
As of 1990 that was the intention, that was always the aim.

Can you give me a profile of who's working on the Amiga set-top Box project? What are the past projects ?
On the engineering side, the project involves many of the same people involved in the CDTV philosophy. Many of that team are here at VIScorp doing the same vision in the same way that the CDTV was a philosophy change for Commodore. We, as a group, have always felt that hardware needs to be up there in the masses and the developers are the voices.

Are there any other companies trying to do this?
There's a lot of noise. In America alone there are 15 or 20 set-top projects with many different architectures and Chip Sets.

Who would you say are going to be your main competitors?
I'd say Philips might be the closest. It has a low-cost implementation of electronics, a base of software and knowledge of television.

How soon do you think there will be a market for this set-top box? Does it exist already?
In some areas. The set-top box is not just a product to us, it's a philosophy. VIScorp has a target in the better television and better telephone business and it's to be friendly in all these different networks.

How soon will the average family be able to take up this technology?
It's a cultural thing and in some markets, it's ready now.

How much will it cost?
It is cable and it will actually be leased and not sold to the user. It is subscription based – say $20 per month which will include the services.

Is it going to be well publicised that the set-top box uses the Amiga?
Yes, if we're successful we hope the Amiga might be considered another Dolby.

Any final comments?
As a group VIScorp believes in the Amiga. It is not buying this on a whim. This group is looking on this as a way of changing the industry. A way to bring this back to life. This may be the last breath the Amiga may have in this world.

ENGINEERING EXPERTS

Don Gilbreath – Vice President of Engineering

Don Gilbreath is best known in the Amiga world as the designer of the CDTV, Commodore's innovative but ill-fated consumer multimedia player. He also has 17 years experience in 'informational sales' and consumer market development in general, and has designed and developed over 30 products including musical instruments and other multimedia products. He is highly rated as a manager of international engineering teams. From 1980-91, Gilbreath worked with Commodore International as Manager of Consumer Products and then Director of Research and Development. He also developed a 1200 baud modem and laser disk authoring system for the Amiga. His educational background includes a BS in Biomedical Engineering.

Also:
Steve Kreckman, Director of Hardware
Carl Sassenrath, Director of Software
Jim Goodnow, Senior Software Engineer
Louise Carroll, Engineering Administrator



One of VIScorp's remote control systems

WHAT DO THEY MAKE?

The ED – Electronic Device

According to VIScorp, the ED is a sophisticated cable set-top appliance. Designed as a cost-effective solution, it is used in conjunction with a TV set and is connected either through a telephone wire or 'wireless' Radio Frequency connectivity. The package incorporates a modem, video and audio circuitry and a controller. VIScorp states that the ED will deliver services that are either not widely available or can only be accessed by an expensive high-end PC. In the future, it hopes to offer home shopping, educational and games programs, fax facilities and e-mail. It also provides a solution to every parent's worry about what their children watch on TV with a screening capability.

The couch potato is further catered for by on-screen telephone dialing which allows the user to dial up a telephone number with the remote control. If caller ID is available, it checks the incoming caller against its database and, when recognised, scrolls the name up on the screen. Households will also be able to sort out their finances and do some home shopping via the television. A magnetic card stripe reader means that credit cards and debit cards can be swiped for transactions. Debit cards can also have funds put onto it from the user's bank. The ED system can also give you interactive information to what's on TV that week which is also customised to the local area. Whether this future holds more re-runs of Dallas remains to be seen though.

The UITI (Universal Internet Television Interface)

The UITI also connects to the ordinary TV set and is a dedicated Internet and World Wide Web access device which comes with a 14.4 modem. The user will be able to use the Web and the information will be displayed within the confines the TV display allows, i.e. it will be shown with TV-quality resolution and local memory storage thought to be 10Mb to 20Mb. A remote control will be used, although VIScorp intends to bring out its own keyboard in 1997. The UITI will also provide extended functions within the current Internet programming language which would mean better quality TV programming and accelerated graphics.

What has been in the foremost of many people's minds who are considering home shopping and banking is the safety of transactions over the Internet. The UITI takes this into consideration and provides for the current standards of encryption. Existing Amiga programs can also be downloaded and used, plus it allows video capture from a video camera, video or TV and lets the user process graphics and send them back over the Internet.



VIScorp's set-top boxes will revolutionsise the home entertainment market



THE FUTURE'S NOW

Well, not far off anyway. When people normally talk about their visions of the future it all seems like pie in the sky. But VIScorp, far from merely speculating on what the home of the future will be like, has a production schedule that will mean these promises could be a reality in many homes before the turn of the century.

For 1996
THE UITI
For the US market (NTSC version)
For the European market (PAL and SECAM versions)

For 1997
THE ED
For the US market (NTSC version)
For the French market (SECAM version)
'Smart' Television which incorporates the UITI and ED functionalities into a standard TV set.
For the US market (NTSC version)
For the French market (SECAM version)
For the Romanian and other European markets (PAL version)

Digital Data Labs

LIGHTWAVE 5 IN STOCK

Macro Form	Exclusive	£215
Plug-ins and go		£99
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Logo Wizard		£299.99
In.Focus Layout Tips and Tricks		£59.99
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Motion Master I	Exclusive	£99
Motion Master II	Exclusive	£99
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Interchange Plus V3		£495
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Forge		£POA
City Builder		£95
LightWave 5	In stock	£1150
Power Macros		£90
Batch Factory		£59
Pro Textures		£POA
Moving textures		£285
Autos Vehicles		£75
Space essentials		£75
Interior Design Collection		£220
Scene Machine (Wavemaker for PC)		£250
LightROM 3 - 3CD collection		£39

Please note that some advertisers prices do not include VAT or shipping from the USA. All our prices are fully inclusive of all charges including delivery to your door next day if required. We also support all products we sell – if you have to send your product back to the US how long are you going to wait?

Digital Data labs are dedicated to the art of 3D animation and modelling for the professional and amateur alike.

If you have an item that you want digitising then we can produce the data for you at a very reasonable rate with quality assurance, if you would like your own head preserved forever in your favourite 3D package, come along and we will zap you with the laser and send you home with your head on a disk.

We carry in stock at all times* as many products as we can find to do with 3D and Lightwave as you can see by our list. We are also in the last stages of development of our new desktop 3D digitiser due for release soon at a price tailored for the home user without compromising on quality and accuracy.

Ring us for the best prices for hardware and ask about our expert Lightwave tutorials.

*subject to manufacturer's availability

Ring (01277) 365249



Neil Mohr always thought colour printing was just a novelty on his **HP 550C.** Not any more with **Turbo Print**

Done to perfection

It always seems the same on the Amiga. You have all these great features and functions and different parts to the operating system, but everything always seems to be half-heartedly implemented. Datatypes only work up to 8-bits, you have a 4.2Gb hard drive limit and when printing you are restricted to either 16 shades of grey or 4096 colours.

When the Amiga came out back in 1985 these 'limits' were really revolutionary. I mean you could actually print in colour, but back then I doubt many people could afford a colour printer and why would you want to print out more colours than you have on screen? Excuses aside, the fact is it's not 1985 any more and there have been vast improvements in all aspects of computing, including printers, and these restrictions really start to show up when using bubble jet and laser printers.

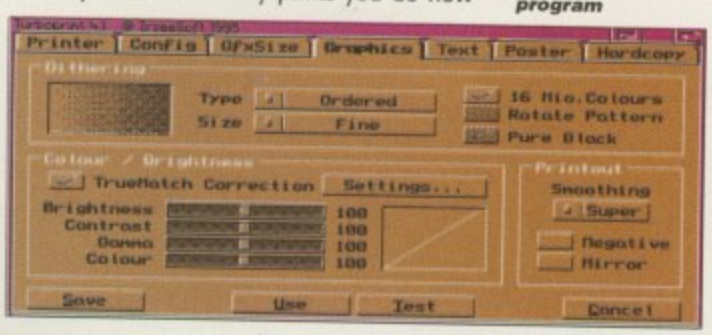
The problem arises from the fact that the printer device that converts the data sent from the program into a form that your printer can understand only works with 12-bits – that is 4-bits for the red, green and blue parts of the colour data on screen. Not only does this restrict the maximum number of colours to 4096, but it also means you can only have a maximum 16 shades of red, green, blue and grey. Even with dithering, this small number of shades is very visible.

No limits

Turbo Print provides two ways of skirting this limitation and therefore gives you access to full 24-bit printing. One approach provides a completely transparent replacement to the standard printer device so *any* program that prints does so using the Turbo Print software. The other approach is a print manager program that allows you to load graphics and print them directly.

The Turbo Print package comes on a single floppy accompanied by a good quality, well written manual. The accompanying installer script makes light work of setting up the Turbo Print software. At this point you will need to choose which printer you want to use. Along with the generic Epson 9- and 24-pin printer drivers there is a comprehensive range of supported printers including all the most popular makes, along with some of the most recent printer models. The major printers for this software are the Canon BJ series, HP Desk Jet and Laser Jet, and the Epson Stylus, along with Citizen, Star and Brother printers to name just a few, and it still supports standard Amiga printer drivers.

Once installed, if you select to run Turbo Print automatically each time you start you computer there is nothing more you actually have to do. Any prints you do now will be done invisibly through Turbo Print's enhanced drivers.



Everything about the final printout can be adjusted from the well laid out preference program

As a replacement to the two standard printer preference programs you get a single Turbo Print program that automatically starts Turbo Print when it is run. From this you can set all the options you previously could with the old preferences, and more. In particular, Turbo Print gives you much greater control over the printing process such as a better selection of dithers for use in different situations.

On the colour side, Turbo Print has a true colour matching system which means the colour you see on screen is the colour that is printed on paper. There are specific colour correction tables for specific printers, and along with this you can fine tune the colour correction and colour to grey scale conversion. There is even the option to print off colour separations so you can produce printing plates, or to produce a colour print out on a b/w printer using four ribbons. This operation does not happen automatically and for each separation you have to select which colour you want – this is to avoid problems with some DTP packages.

So what about the all-important output? Well speed wise, on my HP 550C there doesn't appear to be any speed increase, but I was pretty much expecting that anyway. However, on colour prints the output is

Print Manager

When printing graphics from certain programs – such as Brilliance – that were designed to be used with the standard printer driver, they still only sent 12-bit colour data to Turbo Print. This means that even though Turbo Print can produce 24-bit output, it will be stuck with the 12-bit data. Even this output is far superior both in colour quality and general look. However, to get around this sort of problem the Print Manager program is included.

Print Manager allows you to print graphics at the highest quality possible with your printer because it has be especially written for use with the Turbo Print drivers. To make your life simpler it can accept a good number of graphic formats. Along with the expected Amiga IFF formats including both Ham 8 and 24-bit formats, Print Manager can handle Jpegs, GIFs and PCX formats. These pretty much cover the most common formats Amiga users will come across.

Once you have selected which picture you want to print, the Print Manager program will generate a preview of what the final print will be like. This can be on any screen mode of your choice. ECS owners will have to make do with a 16 colour screen while AGA owners will be able to use a high resolution screen in 256 colour, and this give a good idea of what the final print will be like. Anyone with CyberGraphX will be able to have a 16 million colour display.

From within the program you can adjust the brightness, contrast and gamma of the picture. Generally, these are useful if a picture appears too dull or hazy. On a second window you can scale and position the picture as it will appear in the final print.



The standard Amiga printer driver gives very visible colour bands



Turbo Print, however, produces a very smooth gradient, if a little speckly



Standard colour output is very poor with obvious banding marks

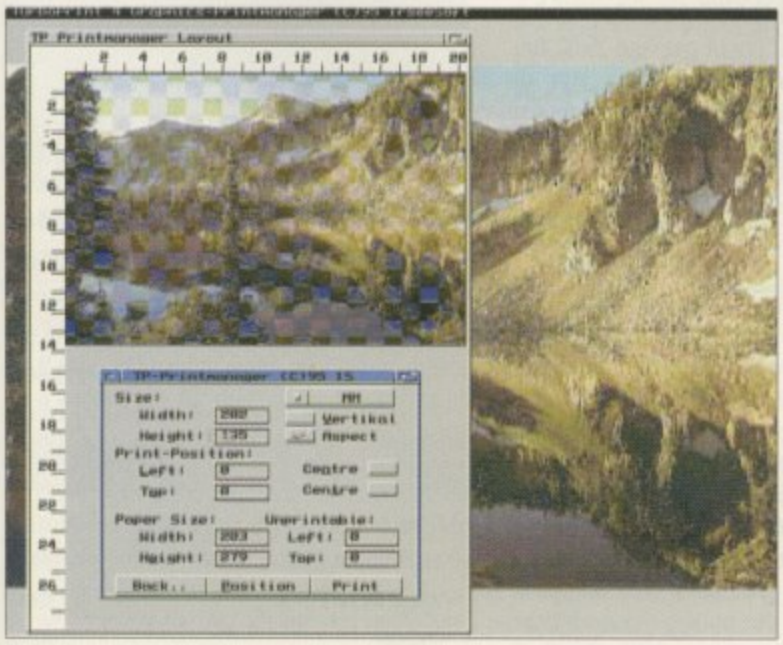
Turbo Print gives you perfect colour, improved dithering and no banding

completely revolutionised. The normal Amiga printer device produces washed out colours, with blacks and dark colours appearing with a very apparent green tint, and there are terrible banding problems. The Turbo Print output is remarkable in comparison – colour is spot on with blacks and dark colours looking pure in colour and there is no hint of a green overtone.

The improved smoothing and dithering makes a huge difference and most importantly there is no visible banding whatsoever. A 256 colour range of black to white produced by Turbo Print comes out as a visibly smooth gradient – no sudden jumps that you got with the old 16 shades of grey. Actual grey scale quality is also improved thanks to the new dithering and Turbo Print's ability to pick out finer details.

All the example prints were produced on a standard HP Desk Jet 550C using normal laser printer paper. This means that even better results can be achieved by using the special Desk Jet and Glossy paper that is made by HP. There are even special modes in Turbo Print to take advantage of these paper types.

I cannot recommend Turbo Print enough. Anyone even considering producing colour prints needs this program.



Print Manager allows you to produce the best quality colour and grey scale prints your printer can manage

Bottom line

REQUIREMENTS

RED *essential* | **BLACK** *recommended*

Printer

2.04 Workbench

PRODUCT DETAILS

Product	Turbo Print Pro
Supplier	Emerald
Price	£49.99
Tel	0181-715 8866

SCORES

Ease of use	95%
Implementation	95%
Value For Money	85%
Overall	95%

Surf and turf



The Squirrel has just got a big brother. **Neil Mohr** takes a look

When the original Squirrel came out it really did sell by the lorry load and rightly so. It gave A1200 and A600 owners easy access to a fast SCSI interface allowing them to use CD Drives and fast SCSI hard drives. Now, HiSoft has decided it is time to come out with what could be thought of as the Squirrel mark two.

Installation is straightforward – just slot the interface in and run the installer disk. The actual installer has a number of different options that allow you to set up the Surf Squirrel depending on your machine's setup. Current Amiga hard drive users can just install the Squirrel and CD32 emulation software straight to disk.

For people that do not own a hard drive, the installer has a number of options to create boot floppies. These allow you to either run CD titles or boot up a SCSI hard drive if you do not already own an internal hard drive. The SCSI hard drive boot floppy is only needed once each time you turn on your computer because the Squirrel device driver is stored in memory even after a reset.

Speed tests

Speed wise, the Surf Squirrel's SCSI interface is going about as fast as the PC slot can handle. The A1200's PC slot can transfer data up to 3Mb/s, so theoretically the fastest SCSI interface would be around 2.5Mb/s. When testing on an A1200 with a 40MHz 030, the Squirrel was happily reading at 1.9Mb/s, the same speed achieved on our A4000 SCSI interface, which is a marked improvement over the 1Mb/s the old Squirrel could achieve.

As the PC slot does not have DMA, the CPU has to shift all the data to and from the hard drive when accessing the hard drive. Therefore, to a certain extent the absolute speed is determined by your processor, but even so, testing on an A1200 with no FastRAM produced transfer rates of 1.4Mb/s. The problem was, there was no CPU time left.

If you plan to use the Squirrel with a CD-ROM, a handy new CD Prefs program means you do not even have to worry about DOS Drivers because it scans your SCSI chain and lists any CD-ROMs attached. All you have to do is click on which one you want to use and click on save.

The major new feature of the Surf Squirrel, and the main reason for the name, is the high-speed serial interface. It is a 9-pin D cup interface, the same type as the Amiga's mouse and joystick ports, and also the normal style that PCs use, so getting hold of cables should be no problem.

The new interface has two major advantages. Firstly it's fast. Its top speed is a whopping 230,400 BPS which is around 28k/s. Compare this to the Amiga's standard serial port which, with everything running at full steam, can only just about manage 7k/s. You should also remember that these sort of speeds are only going to be possible if you are either directly linking two Amiga's via Sernet or if you have a special phone line and a modem that can handle this kind of throughput.

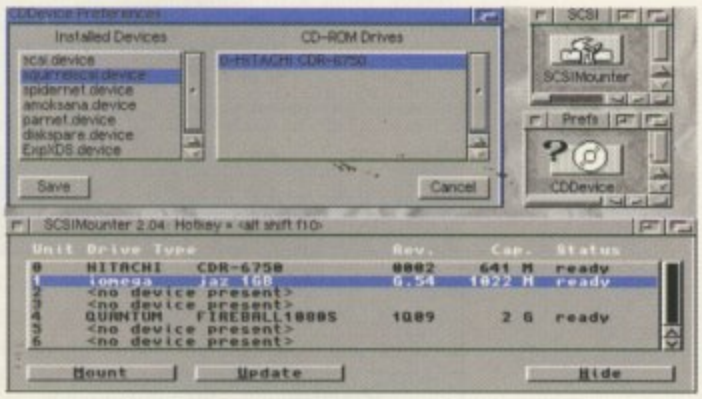
In practice, people using 28.8k modems for Internet'ing or BBS'ing are not going to see speeds this high, but even so you will get a huge improvement over the conventional Amiga serial port. Using the Net and Web package from HiSoft with the 28.8k modem set to 115,000bps, I was getting on *average* 7.5k/s when downloading a text index file from Demon. This is around twice the speed possible on a normal A1200. Normally, you would be lucky to get 4k/s, and you have the problem that this uses all the spare CPU cycles, borne out by the mouse cursor jumping around the screen. With the Surf Squirrel's serial interface only around a third of the CPU cycles are needed on a plain A1200.

Jargon box

PC Slot – a much easier way of saying PCMCIA slot. Some wise old soul spotted that PCMCIA slot is horrible to say and decided we could all call it a PC slot

BPS – Bits Per Second, a measurement of the transfer rate between two devices. Mainly used for modems and serial links, it say how many bits are transferred a second. Using bits gives bigger end results and makes top-of-the-range modems seem really fast when they're not

CPU Cycles – every computer's processor can only handle so many instructions a second. When people say a program uses all the CPU cycles they mean the processor has no spare time to do anything else. This can result in a general slowing down of other programs or processes



SCSI mounter and the new CD Prefs make adding new devices even more straightforward

Price buster

Currently, HiSoft has the unusual offer, for hardware anyway, of allowing current Squirrel owners to upgrade for the discounted price of £64.95. If you are just running a CD Drive then I am not sure whether there would be any benefit in upgrading. On the over hand, if you are planning to add a hard drive or currently own one then you will definitely get a speed increase, and if you are a serious comms user then the Surf Squirrel will be a revelation. With a new tougher case and interface you will never regret purchasing a Surf Squirrel.

AMIGA BLUE CHIP AWARD

Bottom line

Requirements

RED *essential* **BLACK** *recommended*



Product details

Product	surf Squirrel
Supplier	HiSoft
Price	£99.95
Old squirrel trade-in	£64.95
Tel	0500 223660
E-mail	hisoft@cix.compulink.co.uk

Scores

Ease of use	89%
Implementation	95%
Value For Money	95%
Overall	93%

All that jaz...



The new gold standard in removable media hits the shelves. **Ben Vost** checks out HiSoft's latest medium

So, back when it all started, the SyQuest was the drive to have, with 44Mb cartridges. Bernoulli came along and brought the Bernoulli Box to the fray. Only a 20Mb cart, but much faster access and slightly more durable media. The two continued to compete, with the SyQuest overshadowing its technically superior cousin, but then a couple of years ago the big thing was the 128Mb magneto optical drive. Early last year this, in turn, was displaced by the Zip drive, a 100Mb SCSI floppy drive (kind of), only to have SyQuest fight back with the EZ drive (it cost a bit more, but the cartridges formatted to 135Mb). This year nobody's going to want to mess around with a measly 100Mb – they want more storage, they want it faster and, needless to say, they want it cheaper than ever.

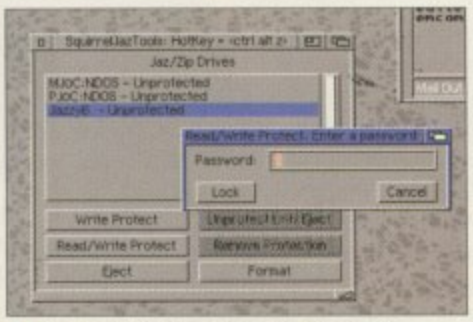
Sibling rivalry

The first of the year's contenders for removable media crown hit our desks a couple of weeks ago. The Zip's larger brother, the Jaz drive *(where do they get these names from? – ed)* is a pretty similar beastie in its external version. It's slightly chunkier and, no, you can't put your Zip disks into the Jaz's gaping maw. One of the main advantages that the Jaz has over the Zip is the fact that it can be any SCSI ID, unlike the Zip which could only reside at unit 5 or 6. We're actually looking at the internal version in this review, although it has been cased in one of those nice Apple-designed boxes, which works out cheaper than the sci-fi case iomega puts it in. If you own an Amiga 2000, or an A4000 with a proper-sized floppy drive (i.e. one that is actually half-height, not the inch high version), then you'll be able to dispense with the external casing altogether and just shove it in a spare 3.5" bay. Of course, this limits one of the main advantages of buying a Jaz drive, that of transportability. Still, if the disks you need to move about are going to another Jaz-equipped machine, there will be no reason to cart around the whole drive all the time.

As it comes from HiSoft, the Jaz drive is ready to roll. HiSoft supplies the Jaz tools software, a terminator pack to go onto the 50-way Centronics SCSI ports in case it is your one and only external SCSI device, and you can negotiate for a SCSI cable suitable for your needs. If you have a Squirrel or Surf Squirrel you will, of course, already have the cabling you need. There is a disk of software to install, but other than that you are ready to roll. If, like me, you also have Mac emulation at your fingertips, either through Emplant or Christian Bauer's Shapeshifter, you will obviously also want to get that Jaz running on your Mac. Unfortunately, at the time of writing, the Jaz drive didn't want to work under any of the Mac hard disk tools I tried, but I have since learned that the software required for the Mac is not yet forthcoming, and this is the reason I wasn't able to get it up and running.

In use, the Jaz drive subjectively feels very fast, almost as fast as a modern hard drive. Reads and writes feel equally swift and formatting the disk using the quick format option is extremely rapid. HiSoft supplies a modified version of the Zip tools to be able to write or password protect the disk, or even format it from one simple interface. HiSoft has also been kind enough to supply the user with ready-made DOS drivers for PC and Mac access, provided, of course, you have CrossDos and CrossMac to use them with.

Finally, the Jaz drive is a great addition to any power user's system and with programs taking more and more hard drive space, along with animations or 16-bit sound samples and so on, the Jaz becomes almost essential, especially if you buy several of the admittedly pricey (at the moment) cartridges.



Jaz Tools is a commodity and can be called up with a hotkey press

What's going on

If you are used to using HDToolbox when prepping any new drives, be prepared for a bit of a wait as the Jaz drive doesn't automatically have a table of bad blocks. This means that the drive then goes off and checks the entire drives for blemishes, spots and other potential problems which can take up to twenty minutes. So if you go into HDToolbox and your hard drive light stays on continuously, don't panic, it's merely the Jaz checking itself all over. Unfortunately, even if you have done this (at which point you would expect that the Jaz would have written a bad block table), you will still have the same wait every time you want to repartition the drive. Although this is a pain, you never actually need to go near HDToolbox when using the Jaz, unless you really need more than one partition.

Bottom line

AMIGA BLUE CHIP AWARD

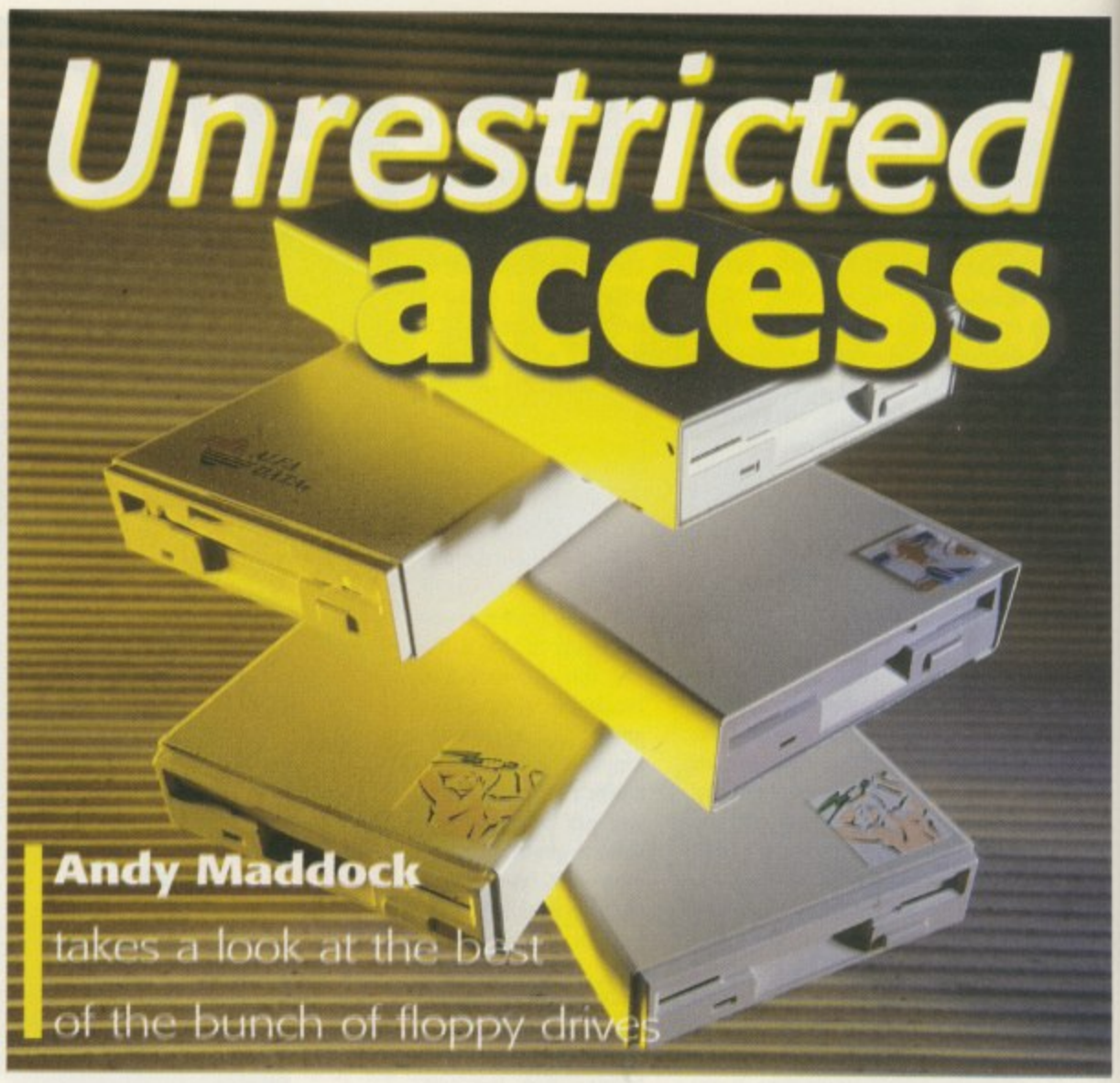
Product details

Product	iomega Jaz drive
available as:	internal £469
	external – HiSoft case £529
	external – iomega case £549
	Jaz 1Gb disks £99
	Jaz Tools available separately £19.99
Supplier	HiSoft
Tel	01525 718181

Scores

Ease of use	90%
Implementation	87%
Value For Money	83%
Overall	90%

Unrestricted access



Andy Maddock

takes a look at the best of the bunch of floppy drives

3.5" PC880B External drive



Power Computing probably has the widest range of external floppy drives and its PC880B is a pretty standard one. The floppy drives themselves plug into the 'disk drive' port on your Amiga to make the whole disk process much easier. For instance, now hard drives are a necessity the access from a floppy is rarely used to run software. The best way to run software has always been from a hard drive or from RAM, so floppy drives are only used for exchanging files from one computer to another, or for running software which fails to include an install script.

Games, for instance, all come on floppies which nowadays can even come packed full of archived files which should be unpacked on to your hard drive. A good use for floppies has always been storage. Once your HD has run out of free space you can transfer some files to floppies to keep in a safe place. This is when the demand for floppy disks with a bigger capacity come in.

The PC880B is a fairly standard drive which enables you to use the standard low density Amiga disks. If you install the Disk Expander patch which comes on the included disk then your drive will increase its usability by allowing you to increase the capacity of a normal Amiga disk.

The program itself allows you to compress all the files you have copied onto the floppy by around 30-70 per cent which means you will be able to fit more on. You can increase the size of a normal 880k disk to almost 1.5Mb. If you pay an extra £10 you will also receive the X-Copy software to complement the blitz copier hardware built into the drive, allowing you to back up your disks quickly and efficiently.

For £49.95 you can't go wrong, especially with the software that comes with it. If you use floppies frequently you should recognise the need for an extra drive. The PC880B would be a very cheap and efficient answer.

Bottom line

Product details

Product	PC880B 880k
Supplier	Power Computing
Price	£49.95
Tel	01234 273000

3.5" XL External drive



The XL is Power Computing's next step up the ladder from the PC880B. Although it looks identical in every way the secrets lie inside. You can use standard 880k Amiga disks but you can also access files from other home computer formats with a simple process.

The XL comes with a supplement disk which features an install patch that you can either install onto your hard drive or make into a floppy boot disk. When you install the patch it will rest as a command in your C directory called XLPatch. The installation program will then add a few lines to your startup sequence which upon reboot will run and also enable the use of other formats. The other formats are PC, Mac (with extra software) and Atari. You cannot actually run any programs which may exist on the disks but you can access files and read them, which is invaluable for text documents.

The drive also has an added function which allows the use of high density disks which are usually found with two windows in the disk instead of one. The XL drive will happily read and format these disks allowing up to 1.76Mb per disk. The PC disk can be formatted at around 1.4Mb, so your overall disk capacity is increased.

And don't forget, the XL drive also comes with a Disk Expander so you can increase the size even more, which can be as much as 3Mb on a high density disk.

For an extra £20 the XL drive slightly overshadows the PC880B. If you have a use for big files across a number of formats then the XL drive is an absolutely essential purchase.

Bottom line

Product details

Product	XL External
Supplier	Power Computing
Price	£69.95
Tel	01234 273000

3.5" SUPER XL EXTERNAL DRIVE



The Super XL drive by Power Computing is more or less the same as the XL drive featured above. The only difference is the fact your disk capacity can be increased to a massive 3.5Mb. Therefore, if you use drives in a workplace where a lot information has to be stored or transferred then this is the answer.

The capacity will hold slightly less than four ordinary floppy disks which you can leaving filling up rather than stopping to format a fresh disk. However, although the idea of fitting 3.5Mb on disks seems fantastic, the call for it may not be as frequent as you think. And for £129.95 this is almost twice the price of a standard XL drive.

You must also bear in mind that you will only get 3.5Mb on a special Extra Density disk which costs four times the price of a standard Amiga disk so it turns out to be quite expensive.

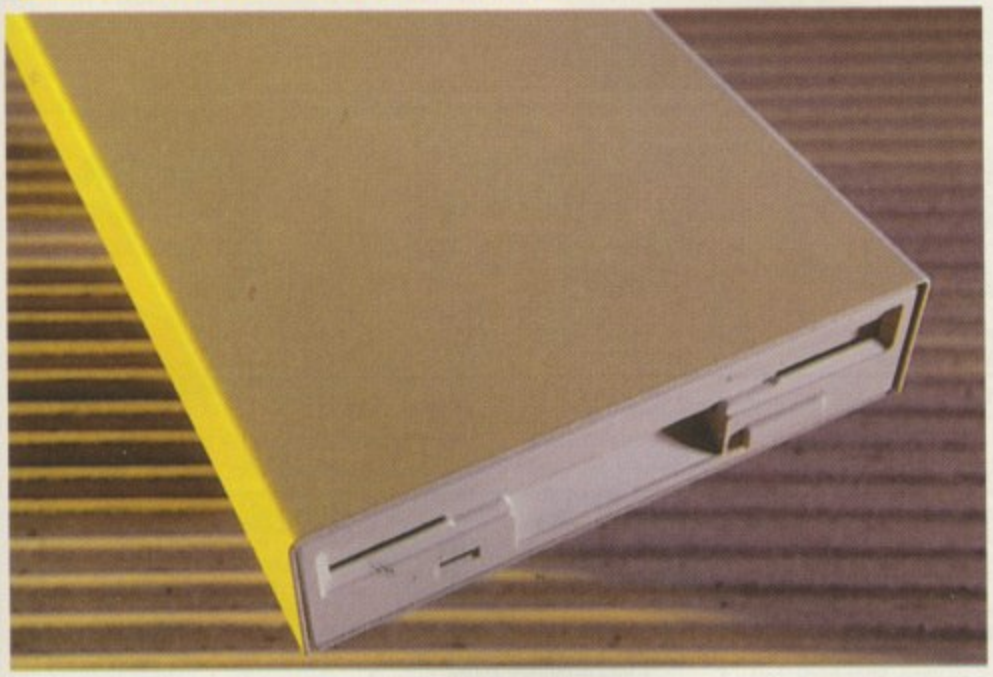
If you're looking for a drive which will hold masses of information and you're not particularly bothered about the expense, then the Super XL comes highly recommended, although you may have to think twice after seeing the price tag.

Bottom line

PRODUCT DETAILS

Product	Super XL External
Supplier	Power Computing
Price	£129.95
Tel	01234 273000

3.5" EXTERNAL DRIVE



With all the talk of high density disks and multi-format file access, some users are just looking for an extra drive which will speed up the use of the Amiga and reduce disk swapping time, especially if you don't have a hard drive.

If you play games it isn't really necessary for a drive which will read high density disks or PC formats. It's just a helping hand, which means you don't have to ruin your delicate hands by swapping disks every five minutes.

Another good use of this drive is for copying. If you want to transfer files from disk to disk then with one standard internal drive you may have to swap disks as much as six or seven times per session, which means if you have a lot of information to back up you will be there all day.

Marpet Development's external offers a nice cheap alternative to all the other drives. What makes it so usable is the fact it's much smaller and far more compact and while other drives tend to act like Arkwright's till and snap your fingers off, Marpet's will more or less thank you for the disk with a nice cushioned spring.

If you're after a standard external drive this is undoubtedly the best on the market.

Bottom line

PRODUCT DETAILS

Product	3.5" External
Supplier	Marpet Developments
Price	£43.99
Tel	01423 712600

> ***"The good thing about the drive is that it has a long cable which is essential, especially if you want to feed it around the back of a desk"***

3.5" ALFADRIVE EXTERNAL DRIVE

The AlfaDrive by Golden Image looked, to me, to be the best of the bunch considering the quality of all their previous hardware. However, I was slightly surprised, especially at the fact the drive access light was coloured red instead of the standard green.

The drive itself can format disks to an 880k capacity just like a standard internal, and although the drive is slim and has a reputation for being reliable, it was quite noisy compared to the others, and after you insert a disk the drive will 'whir' away for a while until it settles down.

The drive contains a pass-through port just like every other drive reviwed so you can either plug another drive in or some other hardware which uses your disk drive port, such as AmigaLink. You can happily plug the network cable in the back without any problems.

The good thing about the drive is that it has a long cable which is essential, especially if you want to feed it around the back of a desk and hide it as much as possible, allowing you more space to work with.

Overall, the drive is pretty much standard and for £39.95 you can't complain. It's certainly good value for money.



Bottom line

PRODUCT DETAILS

Product	AlfaDrive
Supplier	Golden Image
Price	£39.95
Tel	0181-900 9291

2.88 MIPS OF SPEED



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Incy Wincy gets out a bit more often...

Part 1

Weaving a design

Starting a new six month tutorial series, **Ben Vost** sets up a Web page from scratch

We're going to take a proper look at Web page design in this series, and we'll start at a point that is often skimmed over in other tutorials of this nature – the planning stage.

Planning is very important in order to bring your site to the attention of the Web powers-that-be, a run-of-the-mill site is going to get lost amongst the myriad numbers of pages on offer, you're going to have to do better! So, an obvious starting point for your planning stage is to determine exactly what will be on offer on your Web page. Will your Web site be informational in intent, requiring constant updates (and will you have the time to ensure that your pages are up to date), or will it simply be a one-tune page like 'The Page O' Buttons', which will require little maintenance.

It's questions like these that really need answering before you even start worrying about your lack of skill at generating a Web page – anyone who has used a text editor can write a Web page with little additional effort – and you should pay careful heed to how you want your Web page to look.

INSPIRATION

It's always a good idea to see what other people have done and get inspiration from their example for your own endeavours, and this can also be the easiest way to learn some of the tricks of the HTML trade, particularly when it comes to decent page layout.

Another consideration has to be given to who your target audience is. If you are aiming particularly at Amiga owners, you will probably already know that the Web browsers available for our machine are not the best around, all currently lacking at least one of the elements of the Grandad of Web browsers – NetScape. If you don't have access to a PC or Mac equipped with NetScape you are going to find it hard to kit out your page with some of the fancier elements seen in modern Web pages, such as frames, but, as long as you don't mind working in the dark, you can always give it a go. If you've checked your code properly it might just work. However, if you really want to make sure that people will bookmark your site for constant reference, it is probably best to steer clear of features you can't be sure of on your originating platform and stick to things the Web browser you use can display.

The most complete Web browser on the Amiga at the moment is probably ibrowse, which is now available (or should be by the time you read this, anyway) commercially from HiSoft Systems in the UK and Europe, and from Oregon Research in the states. Its current demo release can manage all the features we use on *Amiga Computing*'s Web site, including the WebChat areas, and is probably the closest you are likely to get to NetScape on an Amiga, at least for the time being. It does have its own problems, particularly while you are writing your Web pages, but more on those later. Okay, so for this project we will actually go the whole hog and set up a real Web page which you will be able to see progress as the tutorial does. We will be starting simply and building up to using some of the more advanced HTML tags and techniques throughout the series.

Let's start with the plot. What do we want for our Web page? I sat down and came up with a list of ideas, some of which may be appropriate for the Web but not for a family magazine, and shortlisted a few. Finally, I decided that since I had such a good response to the Workbench 96 article that was in our January 96 issue, and because I have access to machines like Macs and PCs, I could add a visual element to the article that was missing in the paper version. Eventually, I would like there to be some ➤

WHAT YOU NEED

This tutorial is going to deal with concepts, programming techniques and graphics that are going to need your full attention and a decent machine to boot. Once we start doing stuff to upload to our Web server you will need some knowledge of the dreaded Unix command set, but I will explain all that once we get there. Although we are basing this tutorial around one UK-based internet provider, our American and Canadian readers should be able to easily transpose some of the details to suit providers slightly more local to them.

It goes without saying that you will need a modern machine with MUI and a hard drive to set up your Web page. But to give you some idea of the software used for this project, we will be using a combination of Personal Paint, Photogenics and ImageF/X for the graphics (I might even chuck in a bit of 3D rendering courtesy of LightWave), Turbotext for text editing and IBrowse for the page previewing. You will also need a telnet application and a utility that can create .tar archives.



C *The contrast in layout design between the two articles means that sacrifices will need to be made*





➤

way of allowing people to add their comments directly to the page and for developers to use the site for trading source code.

So we have an idea for a Web page. Not totally exhilarating as a concept maybe, but a solid base of content with a fairly light maintenance schedule. The first thing to look at is how we want to present the information. We could just leave the text as it stands and run it straight down the page, but I think that might be a little hard to read at a stretch, so perhaps dividing it into the sections it was presented in in the magazine and making them into separate pages would be the best idea. The second question I had to ask myself was whether I wanted to slavishly copy the layout from the magazine or adjust it to better suit the Web's idiom of layout. If you have a copy of the magazine handy, it might be worth your while to take a look at the pages, as I did, to see what changes you think need to be made.

CAPABILITIES

One of the major advantages that a Web site can have over paper is the ability to be able to send people off in other directions, such as links to Apple's site to check out the features of the Mac's OS, or links to some of the shareware programs mentioned in the text so that the reader can download the programs for themselves. The Web site can also be linked to another of *Amiga Computing*'s articles, this time the 'Modus Operandi' piece from last December's issue comparing Workbench with System 7 on the Mac and Windows 95 by Frank Nord. This piece must surely have relevance to the Workbench 96 article and although we could put a note in the Workbench 96 article telling people to also read our December 95 issue, it is only on the Web we can point them straight to it.

Fortunately for me, IDG maintains backups of all past issues so I can easily retrieve the original pictures, DTP files and text for the two articles and recycle them for Web use. The only slight concern I have is based around two potential problems – namely that the two issues have different designs and that the Flash Gordon image in the Workbench 96 piece was paid for just for the magazine itself. After much thought (well, five minutes and a cup of tea later), I decided to ditch the Flash Gordon shot and just use the headline pretty much as it stands (there will be enough pictures on the site for it to be colourful), and to revamp the Modus Operandi article using our current house style.

It's always a good idea to see what other people have done and get inspiration from their example for your own endeavours

So now onto how the Web pages will look. Looking at the layout of the magazine, I do like the little 'future Amiga' graphic and cover feature WOB at the top of the page, but I can't use the spaceship (copyright again), and the words 'cover feature' aren't really relevant any more. So playing around on a bit of scrap paper I came up with a nice Workbench 96 logo which I can use at the top right of each page on the site.

Background or no background? Should I just specify a colour? Hmm, well since IBrowse can turn off background images I think I will go for a little '96 logo since it will make a nice repeating pattern, but I'll have to make sure it is as unobtrusive as possible, while still being visible. What about the heading for the sections and the crossheads? I'm going to ditch the crossheads (those bits of text that just serve to break up paragraphs) at this stage and just concentrate on getting the page up, besides which, crossheads may be a necessity when you have a mass of unbroken text, but since I am going to break up the article onto separate pages, they will be less useful.

Captions can also be a bit of a problem with HTML so I have decided to incorporate the text into the images themselves so that I can have full control over their typography and the bullet point used.

BUILDING THE PROCESS

Okay, that's most of the design issues I have to worry about right now out of the way, now we'll have to think more about the remaining content of the pages, what links (if any) we'll have, how people can suggest new ideas for the Workbench 96 topic and so on. In the normal manner of tutorials the world over, we'll start the page using only standard HTML tags that are easy to understand and implement. In the following months we'll build up the complexity gradually until our Web site is an example of the finest, modern, HTML coding there is with gorgeous graphics and superb text to boot. See you next month...

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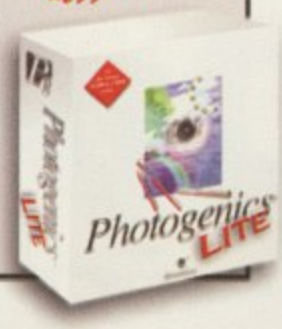
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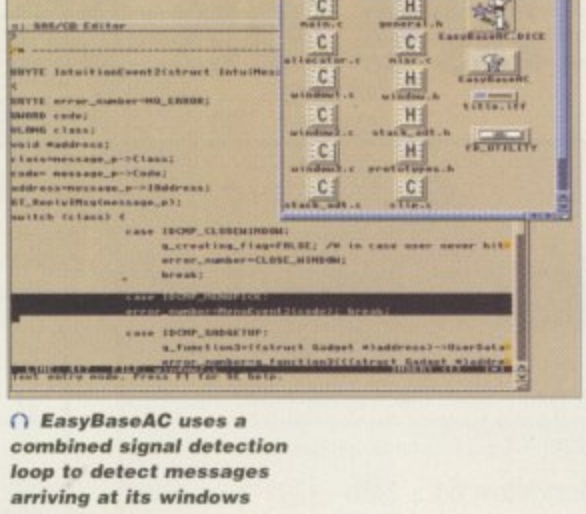
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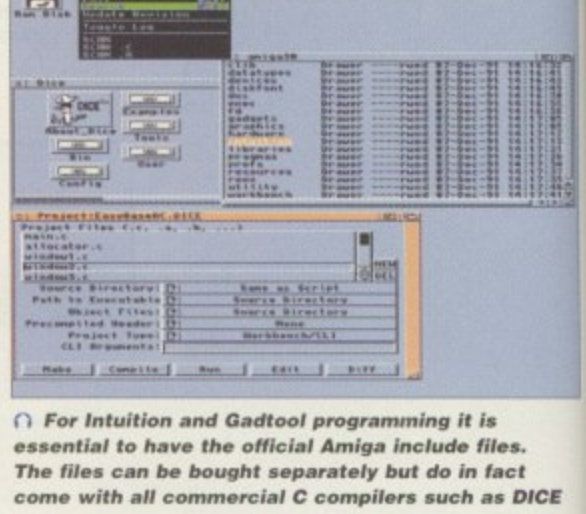
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EasyBaseAC uses a combined signal detection loop to detect messages arriving at its windows



For Intuition and Gadtool programming it is essential to have the official Amiga include files. The files can be bought separately but do in fact come with all commercial C compilers such as DICE

Operation database

Part 4

Paul Overaa outlines his approach for handling events which arrive from the three EasyBaseAC windows

I dealt last month with the creation of the EasyBaseAC menus and gadgets but, of course, once these items are added to a window it then becomes the program's responsibility to handle the events generated when a user selects a menu item or makes use of a gadget. Luckily, at this stage of the proceedings, we can broaden our scope a bit because this type of event handling is the same whether you are handling menu events, gadget events, or any other types of event that we've asked for.

As you probably know, event notification on the Amiga takes the form of messages and the message system used is basically an Exec facility. In the case of Intuition, the real message information is provided by supplementing the Exec defined message with additional fields using an extended structure known as an IntuiMessage. Now, before a program can receive such a message it must have allocated and initialised a suitable message port, but with Intuition this job is nigh-on transparent. Providing we ask for at least one type of message to be sent, which we do by using the WA_IDCMP tag when opening a window, Intuition will automatically do all this port creation stuff for us at the time a window is opened. Event types, set using flags defined in the intuition.h header file, are available for a whole host of events and you'll see a variety of flags being used with each EasyBaseAC window module.

You should, incidentally, notice how the various flags are combined using C's bitwise Inclusive OR operator, |. For example, in the window2.c module you will find this WA_IDCMP tag definition being used in the OpenWindowTags() call:

```
WA_IDCMP,  IDCMP_CLOSEWINDOW|IDCMP_MENUPICK|
           IDCMP_REFRESHWINDOW|IDCMP_GADGETUP|
           IDCMP_CHANGEWINDOW
```

Here, the IDCMP_CLOSEWINDOW flag asks Intuition to notify us whenever the user hits the window's close gadget. The IDCMP_MENUPICK and IDCMP_GADGETUP flags say that we want menu and gadget selection events to be provided, IDCMP_CHANGEWINDOW gives us window size information whenever a user has resized a window, and IDCMP_REFRESHWINDOW allows Intuition to remind us whenever our window display needs refreshing (redrawing).

It's all very well saying that our program collects messages sent by Intuition but how does it get to know that Intuition has sent a message in the first place? The short answer is that it's all done using Exec's inter-task signalling system.

For each task Exec allocates 32-bits for use as 'signal bits'. Sixteen are used by Exec itself and 16 are available for use by the task in question. In most cases you will rarely need to worry about how these bits are allocated because Intuition handles the nitty gritty details for you. You do, however, need to understand how programs are put to sleep (rendered inactive) and brought back to life when something of importance happens (i.e. a message arrives indicating that the

EVENT HANDLING PROPER

Having used Wait() to identify the fact that a message has arrived at a window's user port, the appropriate event handler gets called and this needs to do several things: Firstly, it must collect the message. Secondly, it must extract information from the message by copying all required fields into temporary variables. Lastly, it must tell Intuition that the message has been dealt with.

The exec library functions for doing the first and last jobs are called GetMsg() and ReplyMsg() but when Gadtool gadgets, as opposed to Intuition gadgets, are involved it's necessary to use the equivalent gadtool routines called GT_GetIMsg() and GT_ReplyIMsg(). It is these functions that you'll find in my code rather than the underlying exec library functions!

Every time a message port signal bit becomes set it means that one or more messages have arrived. Because of this, each EasyBaseAC window event handler uses a loop to process it's messages and this loop continues to collect messages for as long as the GT_GetIMsg() routine returns valid (non-NULL) pointers.

Once the information has been extracted from the IntuiMessage and replied, it is normal C practice to then use a switch statement based on the message's class field in order to decide what to do with it, and this is exactly what EasyBaseAC does. In the two window modules already provided you'll see events requiring only simple actions to be taken, being done within the switch statement itself. A typical example is an IDCMP_CLOSEWINDOW event where I essentially just set an error number indicator that causes the window to be closed as soon as all outstanding events have been dealt with.

For menu event handling, which often tends to involve more awkward processing, I pass these onto a separate menu handling routine to avoid the main switch statement from becoming too complicated. You'll notice, incidentally, with the window2.c and window3.c modules (provided in earlier instalments) that I have layered the menu handling code using MenuEventX() and ProjectMenuHandlerX() type calls. You might think that this layering is unnecessary given that the only menu operations that these particular modules have to do is checking for window closing. You will, however, appreciate the benefits of the layering approach when you see the menu handler for the main EasyBaseAC listview based window next month.

program user has done something of interest).

Again, the Exec library comes to the rescue because it contains a function, called Wait(), which allows a program to sleep until one or more signals are received. It's at this point that the EasyBaseAC connections get a little complicated and since Exec signal handling in general seems to confuse a lot of people, I'll sketch out the basic ideas from scratch. A message port structure contains a field designed to hold an 8-bit value called mp_SigBit which represents the signal bit number which has been assigned to the message port.

In the case of Intuition, the IntuiMessages which we have requested will arrive at the UserPort so... if_s_window_p is a pointer to a window then the C code needed to refer to the signal bit number of the UserPort of that window looks like this:

```
s_window_p -> UserPort -> mp_SigBit
```

Wait() needs to know which signal bits we are interested in but it expects these to be supplied as a 32-bit mask, not the signal bit numbers contained in the UserPort's mp_SigBit field. Converting the mp_SigBit value to a mask is easy – we simply left-shift the number 1 an appropriate number of times, namely mp_SigBit times, using the << operator, like this:

```
shift_required = s_window_p-> UserPort-
>mp_SigBit;
mask = 1 << shift_required;
Wait(mask);
```

With EasyBaseAC, however, a slightly more sophisticated scheme needs to be used because not only can up to three windows be on display at the same time, but the user can shut down or reopen windows as they see fit. Since signal bits are allocated dynamically as windows are opened (and deallocated as windows are closed), EasyBaseAC needs to keep track of which signal bits are currently associated with which windows and it needs to keep this information up-to-date.

Remember, just closing and reopening a window could result in the signal bit of that window changing!

The way I handle this is as follows: As each window is opened the associated signal bit is stored in a global array called g_handler_sigbit[ ] and this value is then inclusive-OR-ed into a global port mask like this:

```
g_handler_sigbit[2]=1<<s_window_p->UserPort-
>mp_SigBit;
/* add (OR) signal bit to global port mask */
g_port_mask|=g_handler_sigbit[2];
```

Similarly, at the point where a window (either under user or program control) is about to close, that associated signal bit is removed from the port mask by exclusive-ORing and the stored signal bit position reset to zero like this:

```
g_port_mask=^g_handler_sigbit[2]; /* remove
signal bit from mask */
g_handler_sigbit[2]=0; /* clear signal bit
entry */
```

The above fragments are from the window2.c (record editor) module provided last month (hence the 2 array subscript in the expressions). The net result is that, no matter how the overall status of the EasyBaseAC windows change, the global port mask variable always contains the appropriate signal bit mask for the windows on display. This mask is then used as part of the high-level Wait() loop shown in listing 1. Notice how I'm comparing the signal set returned by the Wait() function and checking it against my g_handler_sigbit[] array in order to determine which windows have messages queued up at their UserPorts.

```
struct IntuiMessage  {
          struct      Message ExecMessage;
          ULONG       Class;
          UWORD       Code;
          UWORD       Qualifier;
          APTR        IAddress;
          WORD        MouseX, MouseY;
          ULONG       Seconds, Micros;
          struct Window          *IDCMPWindow;
          struct IntuiMessage    *SpecialLink;
```

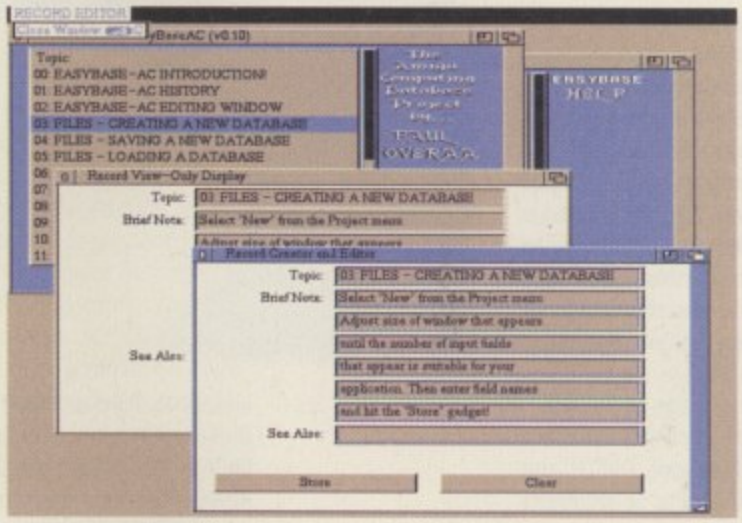
Intuition's IntuiMessage structure

```
Function Name:        Wait()
Description:          Wait for one or more signals
Call Format:          signals=Wait(signal_mask);
Arguments:  signal_mask - 32 bit mask of signals to wait for
Return Value:         signal(s) which caused the Wait() to be satisfied
```

Note: When this call returns it means that one or more messages have arrived.

```
UBYTE MainEventHandler(void)
{
UBYTE error_number=NO_ERROR;
ULONG signals;
do {
          signals=Wait(g_port_mask);
          if (signals & g_handler_sigbit[2])
            error_number=event_handler[2]();
          if (signals & g_handler_sigbit[3])
            error_number=event_handler[3]();
          if (signals & g_handler_sigbit[1])
            error_number=event_handler[1]();
          if(error_number==REFRESH)
            {
            if (g_handler_sigbit[1])
              {
                    CloseWindow1();
                    error_number=OpenWindow1();
              }
            if (g_handler_sigbit[2])
              {
                    if (g_handler_sigbit[3])
                    CloseWindow3();
                    CloseWindow2();
                    error_number=OpenWindow2();
              }
            if (g_handler_sigbit[3])
              {
                    CloseWindow3();
                    error_number=OpenWindow3();
              }
            }
          }while(error_number!=PROGRAM_EXIT);
return(error_number);
}
```

Listing 1: The high-level event handling loop from the main.c module

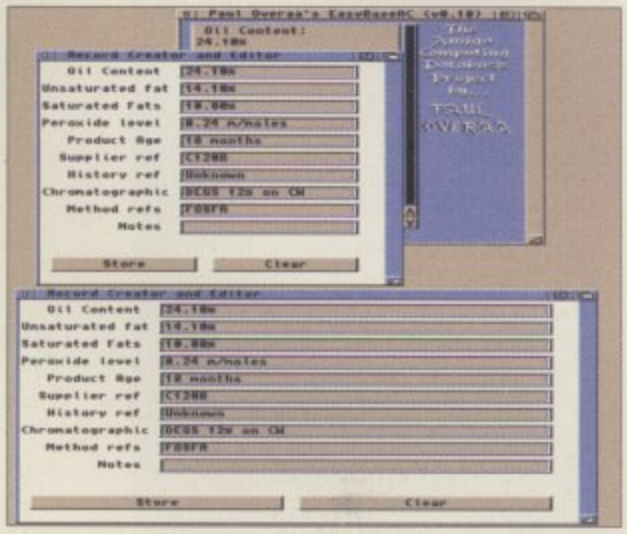


To cater for various fonts EasyBaseAC makes some rough calculations on text size. These routines will also be found in the main.c module

WINDOW REFRESHING

The EasyBaseAC event handlers return codes that are normally meant to indicate success or failure of the routines. I tend to collect this value using an error_number variable, but in a couple of instances I 'borrow' this variable to pass back what is essentially non-error information to a higher code level.

One example of this will be seen in the window2.c code module where, to force a window to be closed and reopened, I set the error_number to a non-zero REFRESH value. By checking for this value in the MainEventHandler() routine in main.c, and then checking the g_handler_sigbit[] array to see which windows are open, I'm able to close and re-open any windows that I've chosen to update. The reason this approach has been adopted is that it is not safe to close down a window from within the window's own event handler!



Whenever a window's size is changed, Intuition sends EasyBaseAC an IDCMP_REFRESHWINDOW message

Information is power



It may be a touch corny but **HiSoft** reckon it's true **Frank Nord** investigates its Internet software



Everyone is going Internet crazy these days – the networks are really starting to show the strain, but the only thing probably stopping anyone from going online, apart from the cost, is just how complex a process it all is. When I started on the Internet way back in 1993, Demon was only offering its horribly clunky AmigaNOS software for use with the Internet. At the time, the Web was a mere glint in the eye of the average Amiga owner and you had to contend with shell-based ftp software. Looking for files took an Archie search and Gopher was as graphical as the whole thing got. Needless to say, if you were one of the lucky people that managed to get AmigaNOS to work first time, you were very careful not to mess around with it, even though it had loads of unnecessary files cluttering up your hard drive and the assigns were monstrous. However, various Amiga-owning Demonites were good enough to put together an installer pack for the infinitely superior AmiTCP TCP/IP stack that allowed access to the Web and a variety of other tools that didn't support AmigaNOS.

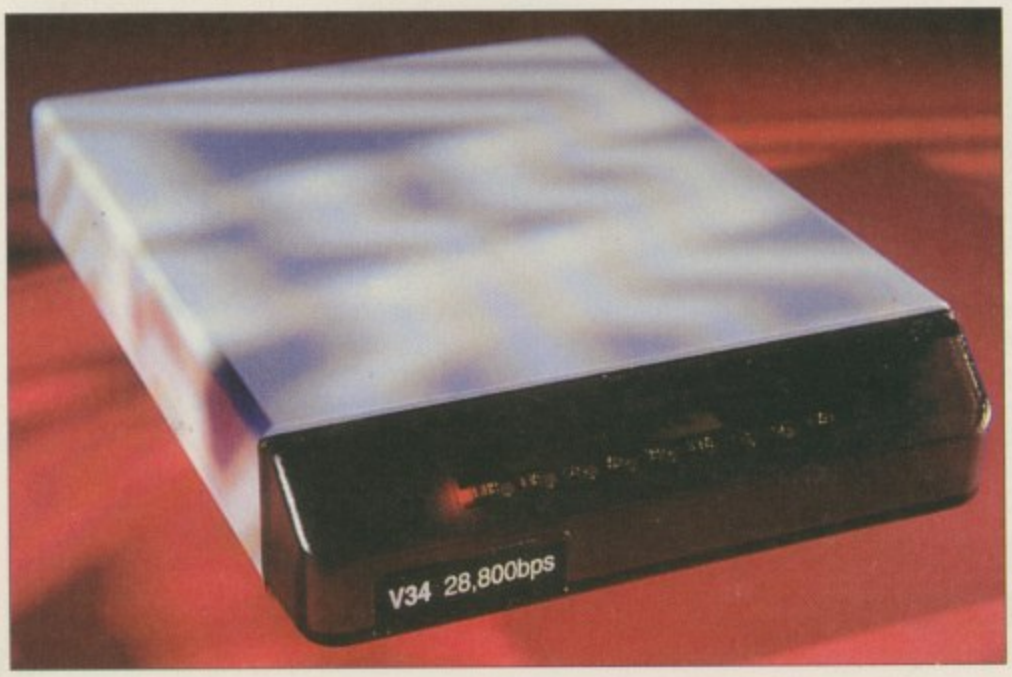
Moving on

That was three years ago now and the installation side of things hasn't really got any easier, at least judging by the number of letters we get asking for more Internet tutorials. All that is set to change this year, though, with the advent of two new products. One is called Miami (more on this later), and the second is HiSoft's excellent Net&Web. HiSoft is trying to ease the problems suffered by Net newbies by supplying an easy-to-use installer that not only sets up AmiTCP (a painful process in itself), but also e-mail software, an ftp client and a Web browser in the shape of iBrowse.

Now while the e-mail package, ftp client and Web browser are Metatool, DaFTP and iBrowse at the time of writing, it shouldn't automatically be assumed that they will be by the time you stroll up to HiSoft, put your grubby tenners on the counter and say: "I'd like a copy of Net & Web and I'm not too proud to admit it."

To give you some idea of the almost constant mutation that this package is undergoing, I started this review about a week ago and already Richard at HiSoft has sent me a new, improved version and he called me today to let me know he had just finished another newer version that he could send me. Obviously, if we didn't have deadlines on this mag I could have just kept getting new versions til kingdom came, but instead I promised Richard I would tell you all that the package would just keep getting better. The really great thing is the fact that it is already good enough to receive a Blue Chip award, so any improvements that can be made are only going to improve the pack's standing overall.

On the question of updates, HiSoft has promised me that it will be able to offer either free, or at least very cheap, updates to the latest version of the pack to any and all registered users and that it is currently engaged in



Bland in looks but fast online, the Enterprise performs well

Raised IBrowse

The Web browser that has been provided with Net&Web is iBrowse, currently the Amiga's best browser. The version that is supplied with Net&Web is a full commercial version with none of the limitations of the freely distributable demo version. This means you can have as many as 100 connections to the Net at the same time (although this many connections will probably prove slower than having a most modest number such as eight or ten), and items like the mailto: tag also work.

The version I received was still a pre-release one, but I fully anticipate the full 1.0 release to be included in the pack by the time you read this. iBrowse supports most of the slightly more fancy HTML tags that are in every day use including forms, fields and tables, although it doesn't yet support frames or news reading. Now that iBrowse is a commercial product with HiSoft's backing, this will almost certainly mean that the rate at which improvements are made to it will increase as more time and energy can be devoted to it.

THOSE NET&WEB CONTENTS IN FULL

There are two versions of the Net&Web package, one with a modem and one without. The modem is BABT approved and isn't bad quality at all. The case for the modem is a bit bland-o but since it is so cheap I'm sure only the most aesthetically sensitive reader is going to mind. The only bad point I can find is the fact that the Enterprise Modem doesn't have an on/off switch on the modem itself, meaning the user needs to unplug the modem every time he or she wants to switch it off.

Next is the software itself. Net&Web relies on MUI for use with iBrowse and Metatool, and the pack actually comes with a licensed version of the said software, enabling the user to be able to save all those nice buttons and so on that the shareware version doesn't.

Net&Web also comes with a better than rudimentary text editor so the user can a) write all the e-mail they need, and b) edit configuration files and so on. The text editor on its own is a welcome addition and it's nice to see that HiSoft has thought of every contingency. This really is plug and play software. By default, Net&Web uses SLIP for its modem connections to the Net, but Holger Kruse's PPP device is also provided and the TCP/IP stack provided is NSDi's AmiTCP 3.0 beta version, which works perfectly well.

HiSoft has also provided a variety of scripts for people who don't like to mess with the shell to set up the PPP device and extract files without too much hassle, among others, and the whole thing sits in a drawer that weighs in at just under 4.5 meg in size.

speaking to Amiga-friendly ISPs for them to offer Net & Web as *the* way for Amiga owners to get online. Already Net&Web offers installation scripts for Demon, CIX, Frontier and Applause Data (a Norwegian ISP), and HiSoft is busy working on Planet Internet and Zetnet installers as well.

The installation process is a cinch. All you need know is your node name and password to use it and everything else is automatically set up for you. Net & Web even configures the correct phone number for your local POP, based on what STD code you use. For users out there with a bit of savvy, you can also adjust things like DNS, e-mail and news servers (although at the time of writing Net&Web doesn't come with a dedicated newsreader), and so on once Net&Web has been installed through the GUIConnect program. One of the other nice things about the Net&Web installation is the fact that environment variables are also kept in the Net&Web directory and therefore don't automatically get loaded as they would if they in ENVARC: thus wasting valuable ram.

In use, Net&Web performs just fine with the GUIConnect script, offering a very easy way of linking up and starting the various programs that come with Net&Web, although it would be nice to see the various shell windows that open up contained in a simple interface, just to tidy things up. At the moment there is also no easy way (other than to use the shell) to access all the little ancillary commands like ping and finger that can prove so very useful, but they are there in the AmiTCP installation.

In conclusion then, I have to say that, in my experience, there isn't an easier way of getting on the Net. In less than ten minutes you can plug in your new modem, turn on your machine and get going. With the package being updated as often as it is and with HiSoft's excellent technical support, I think we're going to see an awful lot more Amiga owners on the Net soon.

MIAMI VICE

Miami is the forthcoming TCP/IP stack from shareware heavyweight Holger Kruse. The idea behind offering yet another new TCP stack (alongside Commodore's defunct AS-225, NSDi's AmiTCP/IP, Internetworks I-net225), is one of simplicity. TCP networking is never going to be the easiest of things to understand but there is no reason, other than an elitist Unix attitude, or possibly laziness, not to hide some of that complexity. The upshot is that Miami is supposed to be almost Mac-like in its setup simplicity. Gone are the endless text files that need to be edited by hand to be replaced with modern, easy-to-use interfaces allowing for the configuration of services and clients and all the other gubbins that goes along with any other TCP/IP stack.

Currently, Miami is in alpha, but it should be available by the end of the summer, so hopefully we will be able to tell you how good it is soon. At present, Holger has decided to abandon the SANA 2 networking standard set by Commodore as being too slow and has concentrated on superfast SLIP and PPP implementations for modem use. This does, of course, mean that Miami will be no use for traditional networking between machines unless the ethernet cards you have get a Miami driver, but how many Amiga peer-to-peer networks are there out there anyway? Answers on the back of a postage stamp please to the usual address.

BROWSE



The full version of iBrowse. Note the number of connections currently being made as we access our home page

Bottom line

REQUIREMENTS

RED *essential* **BLACK** *recommended*



PRODUCT DETAILS

Product	Net&Web
Supplier	HiSoft Systems
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Paul Overaa kicks off a brand new series that takes a beginner's look at **ARexx** and how it is used

ARexx for beginners Part 1

Command performance

If you want to make a computer do something you have to give it instructions in a way that it understands. These instructions are called computer languages and one language that all Amiga owners are provided with nowadays is called ARexx. Now even if the thought of computer programming scares the hell out of you, keep reading because ARexx, unlike most other computer languages, is very easy to learn.

ARexx can actually be used in a number of different ways. Firstly, you can write standalone programs to do a particular job. If, for instance, you wanted to write a small program that displayed your name on the screen, ARexx will let you do it very simply. ARexx can also be used to replace the existing script language that the Amiga's operating system, AmigaDOS, provides, and because of this you'll often hear ARexx programs being referred to as ARexx scripts!

The area where ARexx really scores, however, is that it contains special built-in communication features that enable programs to send messages to each other. A great many Amiga software products make use of this nowadays by providing sets of commands that allow users to use ARexx to control the way the program operates. This adds a new dimension to Amiga software because it makes it possible for new facilities to be added to a program.

For example, the Final Copy word-processor doesn't provide a document line-numbering option, but because the program has an ARexx interface it's possible to write a small ARexx script that tells Final Copy what it must do to add line numbers to a page of text. In this case Final Copy could execute the script directly and when this happens the script itself would effectively be controlling Final Copy, causing it to add the required line numbers. Once that script is available you're able to use it whenever you want to add line numbers to a document so your ARexx script will have effectively added a new facility to Final Copy. In short, these ARexx communications facilities aren't just something of academic interest, they have real practical value and are, in fact, the main reason that ARexx is provided with your Amiga.

STEP BY STEP

In order to create scripts that control other programs you need to know a little about ARexx programming, and the main job of this first instalment is to take you on a guided tour of the steps needed to write, and run, a simple ARexx script. To start with you'll need to open a Shell window and you do this by double-clicking on the Shell icon that you'll

RUNNING THE EXAMPLE

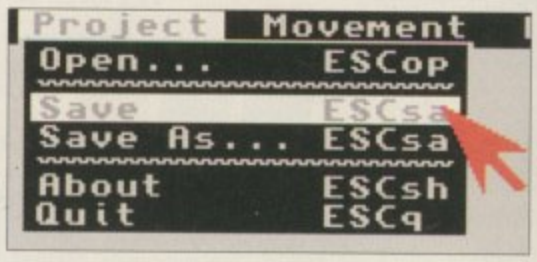
You execute an ARexx script from the Shell window by typing RX followed by the script's name. Unless you need the typing practice it's not necessary to type the .rexx part of the script name because the RX command supplies this automatically. Since our example is in the RAM disk we therefore run it by typing this Shell command:

```
rx ram:example
```

If everything goes according to plan you should see a message asking for your name and, when you enter this (and press the Return key), your script will display a personalised message for you. If it did then congratulations – that's your first script written and executed! If things didn't go quite so well,



When the ED editor first starts the window will be blank



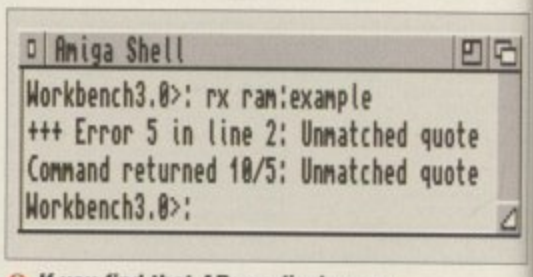
Once you've typed in the example program, select the ED Save option

ARexx will stop the execution of the script and provide an error message. It will always do this if there is something in the script that it cannot understand. Like all programming languages, ARexx has certain rules about the way program statements are formed and used and you would, for instance, be given an error message if you wrote the second line of the example like this:

```
SAY 'what is your name?
```

ARexx would read the line, realise that the terminal quote mark was missing, and complain. Whenever you get an error message you'll need to use ED to look at the script again. ED is not a particularly easy editor to use but it's good enough for most ARexx script editing. The easiest way to make changes is to use the up/down/left and right arrow cursor keys to move to the part of the text you wish to alter and either add new characters or delete incorrect ones using either the Del or backspace (<-) keys. You can also change the position of the cursor by moving the Workbench pointer to a character and pressing and releasing the left mouse button.

Having found and corrected any mistakes, you then re-save the script and try running it again. Once you get the original version up and running the best thing to do is experiment a little by changing the text being used, adding a few extra SAY instructions that print some additional text messages and so on. That'll stand you in good stead for next month's instalment.



If you find that ARexx displays an error message then you'll need to take another look at the script you've written

find in the Workbench System drawer. ARexx programs are essentially just normal text files and can be created using any text editor program. We're going to use the Amiga's ED text editor but you could use a word processor if you like, as long as it is able to generate normal (so called ASCII) text files as opposed to document files that contain special formatting characters.

Those of you who haven't used a Shell window before need to know two things about specifying Shell commands: Firstly, you must type the name of the command to be carried out (along with any other information the command might need). Secondly, you must press the Return key because this let's your Amiga know that you have finished typing a command. We're going to be creating a file called example.rexx in the RAM disk and this means that the Shell command line needed is:

```
ed ram:example.rexx
```

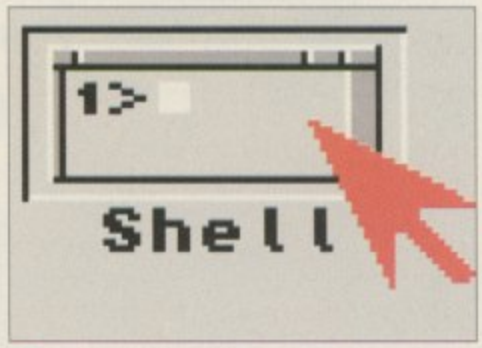
The moment you've typed this command and pressed Return a window will open and at this point you can enter a script.

Type in the following four lines exactly as written, pressing the Return key after you enter each line:

```
/* example.rexx */
SAY 'what is your name?'
PULL name
SAY 'hello' name
```

The first line which starts and ends with pairs of /* and */ characters is called a comment line. All ARexx programs must start with a comment and it's common practice to provide the name of the script. You can put additional comment lines anywhere in an ARexx program and with larger programs you'll often find a few extra comments useful.

SAY is an ARexx instruction that makes ARexx print things on your Amiga's screen. In the second line of the program we've specified the fixed piece of text, 'what is your name?' by placing that text between a pair of single quote marks. Text items like these are called string constants simply because they represent strings of characters that will not change during the time the program runs.



Double-click on the System drawer's Shell icon to open a Shell window

PULL is an ARexx instruction that allows us to collect typed input from the user of the program. The important thing to notice about this part of the program is that there is a term – name – which follows the PULL instruction. This is not just another piece of text, it is a special sort of ARexx item called a variable which represents part of your Amiga's memory. Variables are used to store numbers and text that may need to be changed during the time the program runs and, as in our case, for collecting input from a user. It's your responsibility as an ARexx programmer to specify a suitable variable name and it is usually best to use names that are understandable. Because the third line of our program is going to collect the user's name I've used a variable called... name. Notice, incidentally, that there are no quote marks around the variable name and it's because of this that ARexx is able to tell we are defining a variable rather than a fixed string constant.

The very last line of the program is another SAY instruction. It differs from our first use only in the fact that this time we're printing two things: The string constant 'hello', followed by the contents of our name variable!

Once you are sure the program text you have typed is correct, select the Save option from the ED Project menu to save your program to the RAM disk. Having done that, select the Quit option (again from the ED Project menu) to exit from the editor and you will be returned back to the Shell window again.

SOME AREXX HISTORY

You might be interested to know that ARexx has one hell of a pedigree because it's based on the REXX programming language developed by Mike Cowlishaw at IBM. REXX development actually started around 1979 but it was not until 1985 that Mike Cowlishaw's book (published by Prentice Hall and called The REXX Programming language: A Practical Approach to Programming) first appeared. By then REXX had become part of IBM's CMS user interface and versions for MS-DOS/PC-DOS computers had already appeared.

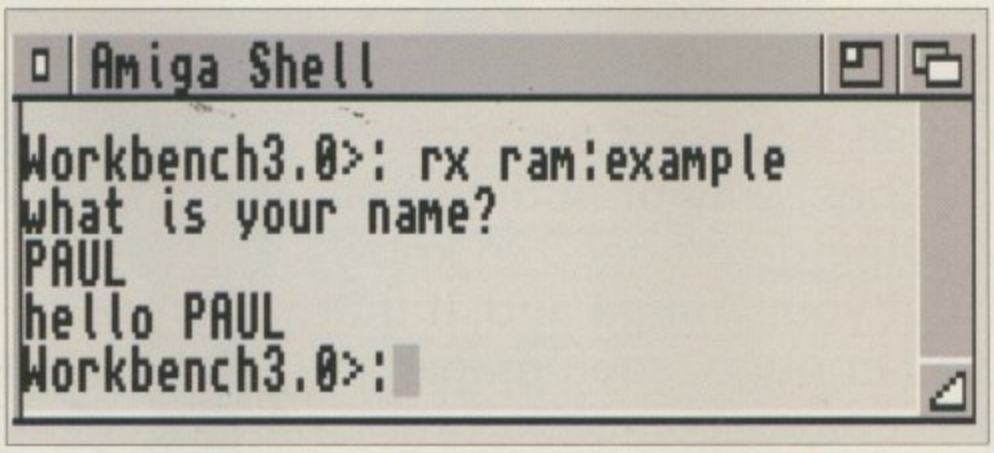
As the Amiga arrived on the scene a programmer called Bill Hawes realised that REXX and the Amiga had a lot to offer each other and he began planning developments that would eventually be recognised as a major milestone in Amiga history – the Amiga version of REXX which we now know as ARexx. In 1987, REXX itself became the standard Procedures Language for all IBM System Applications Architecture (SAA) machines and, coincidentally, it was also the year that ARexx was first released.

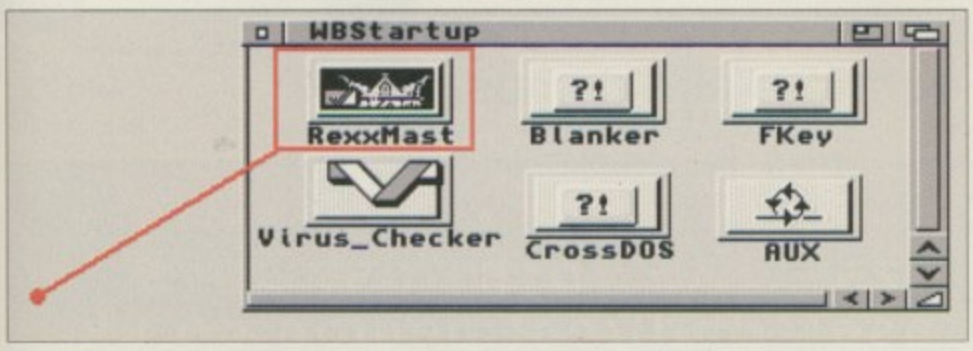
Since then, ARexx has been happily running on the Amiga through both 1.2 and 1.3 versions of the operating system. Though originally provided as a third-party product, the language became part of the Amiga's operating system when Workbench Release 2 appeared and it's been an integral part of the Amiga ever since.

STARTING AREXX

The files which constitute the ARexx language are stored on the Workbench disk. You can start ARexx by double-clicking on the RexxMast icon in the Workbench's System drawer, but a far better idea is to have ARexx start automatically whenever you boot your machine. To do this just drag the RexxMast icon into Workbench's WBStartup drawer. Once ARexx is up and running you don't actually see much. There are no ARexx gadgets or menus, just a small window which provides a brief sign-on message and then all visible traces of ARexx disappear. Don't panic, ARexx will still be present in your Amiga's memory – it's just sitting quietly in the background waiting to be given something to do!

This is the sort of output you'll see when the program runs





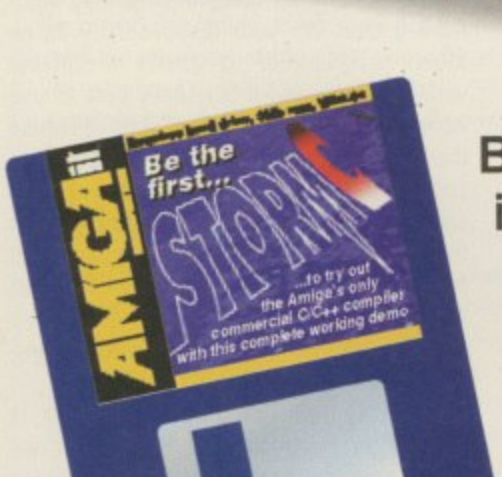
To run ARexx automatically whenever you boot up just drag the RexxMast icon into the WBStartup drawer

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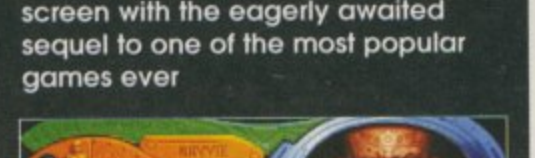
Contents

News

All the latest news featuring reviews and previews is stored here. If you can find them let us know – we couldn't

Total Football

Domark's new football game is totally brilliant. Why don't you check out the full review

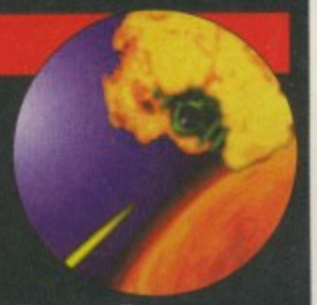


Chaos Engine 2

The Bitmap Brothers make a welcome return to grace the Amiga screen with the eagerly awaited sequel to one of the most popular games ever



XP8



Shoot-'em-up action here courtesy of WeatherMine Software. And the surprising feature is, it's quite good!

Final Gate

Full motion video action ahoy with Alternative Software's latest release. Come on, give it a chance



SYSTEM news

By Andy Maddock

Natural born liars

Right, we promised you last month that we'd have a full review of Championship Manager 2 for this very issue. Unfortunately, due to a lack of information we haven't. Domark promised us we'd have it for this issue but they have now told us it's going to be another two months while they bug test it and sort other things out.

I'm sorry if I got your hopes up. Never mind, check out the review of Total Football, Domark's last but one release for the Amiga. Who knows, Championship Manager 2 may even be here for next month, although then again... probably not

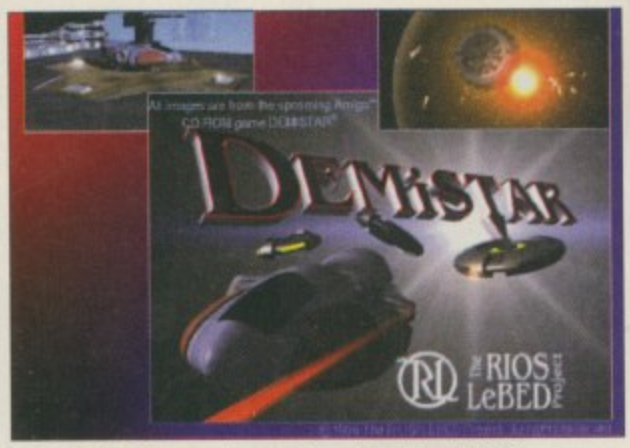


This a game that may be with us in two months, although we reckon less. But I'm not going to start those rumours again...

A definite cert

I have just heard about a new CD-ROM adventure game that's going to come out. It's an asteroids-type game with lots of Babylon 5-type sequences and sampled sound. Ooh lovely jubbly!

It's called Demistar and was created by the Rios/Lebed Project, a company who wishes to support the Amiga all the way by creating new and innovative software. The good news is that it will probably be out during my lifetime! Despite the lack of information about Demistar I assure you it is all completely accurate.



Ooh, CD-ROM game here. Oh my lordy lord. If this comes out the CD world will be put to rights... hurrah!

Show report

If you had time to venture down to the Hammersmith Novotel to visit the World of Amiga Show last month you would have noticed we had a stand packed full of games, magazines, subscriptions, not to mention an A4000 whose highlight of the show was to crash repeatedly while punters then decided to wipe the hard drive. Cheers.

Anyway, I hunted around the show myself and found... next to nothing. Some other magazine stand was showing off Capital Punishment by the Canadian team ClickBoom and another was showing Alien Breed 3D. While this was going on a foreign chap showed me an overhead-type adventure game which I thought was quite good, but when I enquired about release dates he made a dash for the exit – so don't hold your breath.

So all in all, it was an exciting show with plenty of goodies on offer, but sadly none of them were games. Never mind, you never know, it may perk up a bit yet.

Next Month

It's not our fault. Okay so System has been greatly reduced in size. It's been a bad four weeks for games. At the beginning of the month we had high hopes. We had heard of some new games which would definitely be ready for review and I hunted around for some news stories which were meant to be printed here but they turned into full pages. We tried our best.

However, next month will be different. We'll have reviews of Capital Punishment, Legends, Atrophy, Chaos Engine 2, Sensible World of Soccer European Championship Edition and Harry's Balloons, and we'll also have some previews which, if we're lucky, may be Thunderstorm and Worms Reinforcements. See, how about that for a packed issue? It surely makes up for this month's feeble effort. Let the good times begin!



This shall be here next month no matter what happens. We will always be the first with news, reviews previews and cheese

System Selections

Watchtower — **89% OTM**

This commando-style game is marvellous. So good in fact I awarded it a spiffing 89%. It features some excellent gameplay packed with loads of special effects like explosions. Great.

Premier Manager 3 — **92% Gremlin**

With the season over and a relegated Manchester City, it's time to pack my bags and head for sunny Stockport in search of some better football – namely Division 2. Oh yeah, Premier Manager 3 - Deluxe is quite good. I gave it 92%.

Timekeepers — **90% Vulcan Software**



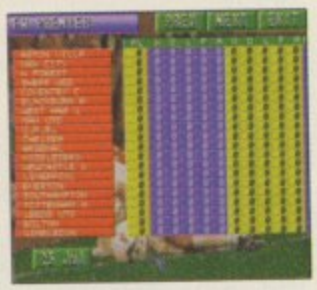
Are you always late for those important appointments? Are you always told off for your punctuality? Well, don't look at me. You should 'keep your time' with Timekeepers. Yes, that oh so puzzling game courtesy of that Portsmouth bunch. (We always call them that don't we?)

Super Skidmarks — **88% Acid Software**



This is the title that immediately springs to mind after a heavy night of curry abuse. Ho ho, nobody's ever done that gag before. Blimey, I'm always the first with all the jokes around here, oh yes. I am by far the best.

Tracksuit Manager — **87% Alternative Software**



This is another footy game. It features a league table, fixtures, players, footballs, kits strips, substitutes, cup competitions, player loans, European competitions, playoffs... Yawn.

Slamtilt — **90% 21st Century Entertainment**



Hey, if this game's by 21st Century it's almost out of date. If the whole point is to prove its games are in the next century then in four years the games will be up to date so they won't be ahead of everyone else. Is it going to call itself 22nd Century Entertainment? But what about in another 100 years...

> ‘It's been a bad four weeks for games’
>
> *Understatement of the year*

Chaos Engine 2

Reviewed by Andy Maddock



When the Bitmap Brothers first entered the home computer scene, they were ranked highly in many games-players' minds – including mine. They brought delights such as Speedball, Magic Pockets and indeed the first Chaos Engine. Now, Time Warner Interactive has snapped up the rights to publish this eagerly-awaited platform sequel.

Recently, the Bitmaps haven't contributed to the Amiga scene, although something has sparked enough interest for them to return with a sequel to Chaos Engine which has generated a lot of interest, especially for old wrinkly Amiga owners who can remember when Speedball was released. And incidentally, to this day, it's still one of the greatest games on the Amiga – ever. I first saw light of Chaos Engine 2 at ECTS which was a bit of a nightmare for Amiga owners considering there weren't any/many Amigas on show. The only Amiga I saw was the one with Chaos Engine 2 playing on it. Two of the 'brothers' were showing it off alongside other Playstation and Saturn releases, and to be honest, it didn't look out of place. As Simon Knight talked me through the whole game, more and more people were gathering behind watching the on-screen action. It's a pity they didn't stay long enough to see me actually beat Simon, much to his embarrass-



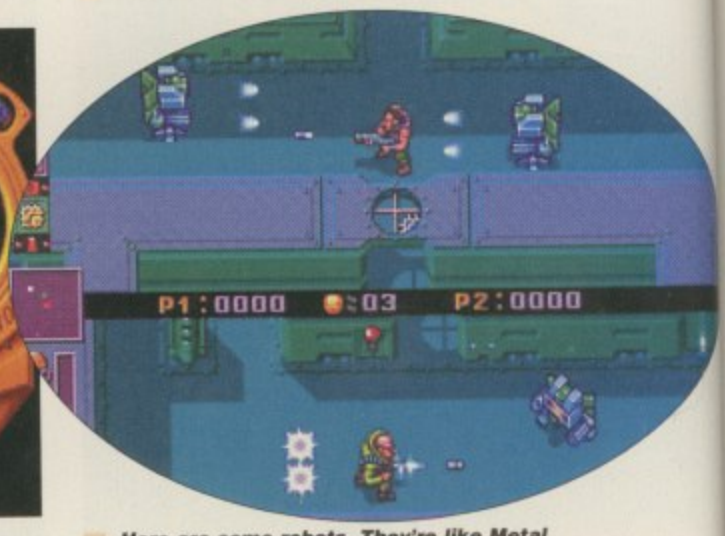
There are four players to select from, each differing in speed, agility, power etc



If you collect loads of stuff you get loads of points. Ream



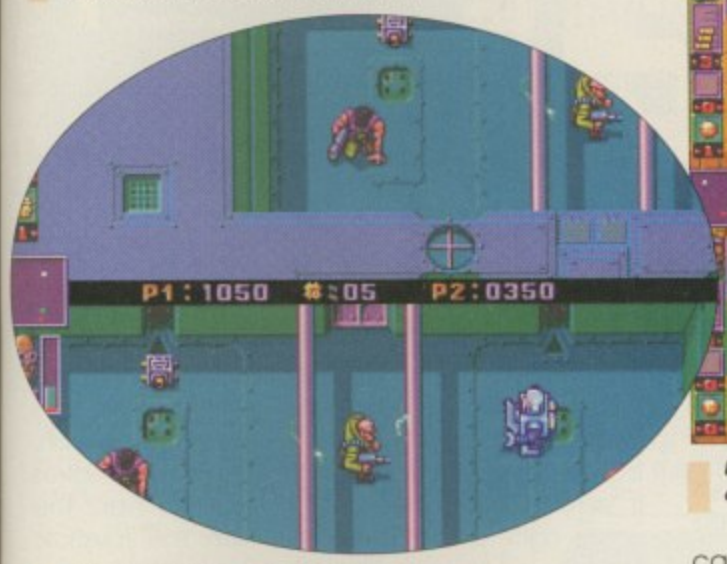
Here's the Navvie character. He's like the big hard one you wouldn't ask for a fight



Here are some robots. They're like Metal Mickey only smaller and not as funny



Here's a bald man, er, with no hair



You can climb up ladders and things to escape your enemy

ment. Oh well. The main new feature which was pointed out was the addition of an actual challenge, whereby the screen was halved, with each player taking their respected half. The general idea is to pick up a key so you can unlock a door, and the first through wins.

This, by itself, may not stand out enormously but when there are points to collect and beasties to defeat, sometimes the key can be forgotten and you eventually engage yourself into lengthy bouts of Chaos tomfoolery. There's also the added feature of you being able to climb up ladders and jump off platforms which give you many escape routes from your enemy. However, the game



Quick, get that key before that guy. You'll probably have to get up first though

Harder than it seems

Everybody knows the Bitmap Brothers would never release below-average games and Chaos Engine 2 will certainly be no exception. The big addition to Chaos Engine is the computer intelligence. If you happen to be a bit of a pro, by picking up the key as well as loads of points the computer's intelligence will rise slowly and, more often than not, you'll end up getting a good beating from the computer – usually right at the end when you're about to open the final door.



Dynamite is used to open the door that leads to the exit

can turn out to be a bit like Tom and Jerry, or hide and seek if you like, but wait... there's a little scanner so you can tell where your enemy is. That's alright then.

The graphics have been slightly enhanced, as well as the sound effects. For instance, as your computer or human opponent gets closer the music will change in tempo, making it exciting and nerve-wracking – just like a film.



All the same characters will be included with different personalities and looks and there will be some hefty artillery available. Incidentally, you'll be able to pick up other weapons throughout the game such as dynamite.

A nice little touch that makes all the difference and hasn't been seen before in any game is the fact that you can lean into a wall to dodge bullets and flying fists. Also, if you run out of ammunition when your opponent has the key, there's absolutely nothing to stop you going up to him and giving him a good slap round his head. Go for it, man. However, having no weapons does leave you slightly vulnerable and you will probably die.

Insight

Chaos Engine 2 is around 90 per cent complete – all that's left are a few bug fixes and generally a bit of tidying up of graphical glitches and things. Hopefully, we should have a full review next month. Get ready, because it's gonna be big.

"A nice little touch that makes all the difference and hasn't been seen before in any game is the fact that you can lean into a wall to dodge bullets and flying fists"

SYSTEM

review

"The hideous monsters who hurtle towards you could have easily wandered from a Space Invaders machine circa 1981"



The glorious opening screen, harking back to the days of the BBC Micro

Final Gate

Reviewed by Dan Whitehead

GRAPHICS 52%

SOUND 47%

GAMEPLAY 20%

OVERALL 34%

PUBLISHER
Alternative Software

DEVELOPER
Gary Pesticcio

PRICE
£TBA

DISCS
1

HD INSTALL
No

SUPPORTS
CD32

Utter pap. Just so you're in no doubt as to the quality of this game, I'll repeat that. Utter pap. Utter, utter pap. But I'm getting ahead of myself. Let me describe the game to you. Final Gate is, in the broadest terms, a shoot-'em-up. Pumped up with a Full Motion Video hose, you sweep down a river in a speedboat and blast away at the approaching baddies before they collide with your face. Snipers line the riverbanks and take pot shots at you, requiring you to blow them out of their waders at a moment's notice. Operation Wolf à la mer, with a garnish of 'interactive movie'. In theory.

Described thus, Final Gate actually sounds quite exciting. But, oh no! It's not. For a start, the description I gave you might suggest that this is Miami Vice-style action. But from the moment the FMV chugs into life, it becomes clear that this was actually filmed on some grimy canal in industrial England. The hideous monsters who hurtle towards you could have easily wandered from a Space Invaders machine circa 1981. They lurch towards you, and unless you shoot them they just sort of vanish. This apparently means they've hit you and a bit of energy is lost. As they move quite quickly, and the gunsight doesn't, this happens quite a lot. The only consolation is that they appear in exactly the same place each game, so you can soon predict what's coming next.

The 'actors' on the riverbank are highlighted by a half-box gunsight, presumably to help you pop their clogs. Very kind of them, but perhaps collision detection might have been more useful. Many times I held the gunsight over the fella in question, with the fire button firmly depressed, sending bullets all over the general area as I sped past. And still I missed. Maybe I'm rubbish, but the fact that you can't use a mouse makes it very frustrating when you have to haul the sights right over the screen with the joystick. Should you manage to shoot them then some bloke appears and gurns at you saying "good shot." You then get to see the gunmen fall over and your boat continues down the river.

And that's pretty much it. It's basic, but that's usually a blessing for most games. Add the myriad defects here though, and it's a recipe for disaster. Some of the other annoyances that depress me too much to discuss in any depth are the tiny playing area, the use of the generic Amiga font throughout the game, the way you have to restart at the beginning of the first level every time you die, and the way the whole game resets when you run out of lives. One of the most painful games I've ever played.

Final word

This is truly hideous. Unlike most FMV games this one doesn't even have the decency to hide behind nice graphics. If Final Gate was a TV show it would be on ITV at about three in the morning, just before Jobfinder. And that's where it belongs.



This gurning fool congratulates you each time you manage to hit a sniper



Kids, don't be too scared by the Teletext-inspired baddies



Evil assassins, disguised as out of work actors, lurk in the scenery



Bored by the whole thing, our hero takes in a spot of fishing

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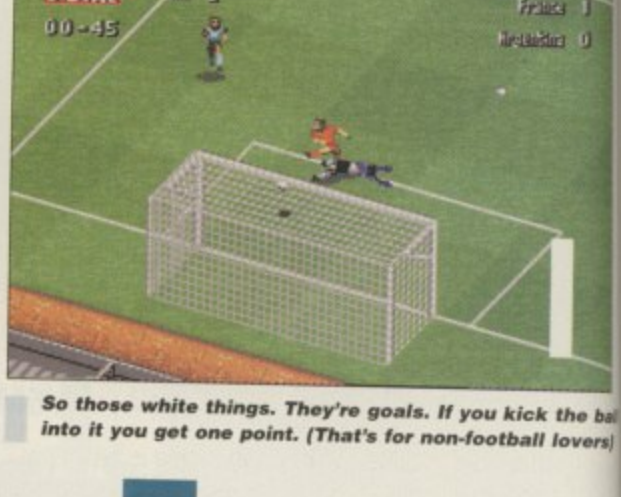
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SYSTEM
review



You can see there are plenty of competitions to keep you involved in the game



So those white things. They're goals. If you kick the ba into it you get one point. (That's for non-football lovers)

GRAPHICS 79%
SOUND 81%
GAMEPLAY 82%
OVERALL 81%

Total Football

Reviewed by Andy Maddock

PUBLISHER Domark
DEVELOPER In-house
PRICE £29.99
DISKS 3
HD INSTALL No
SUPPORTS A1200

Total Football arrived some time last year on the Megadrive – I think – and it wasn't the most popular game ever and never managed to steal the crown from the FIFA series. However, on the Amiga it's a different story.

Sensible Soccer was and still is the finest arcade football game, so anybody who thinks they can better it is surely mistaken. I don't think anybody can better SWOS but one day I hope someone will prove me wrong.

However, Domark has finally released Total Football after claiming it may never release it. So here it is... Some people actually mixed Total Football up with Championship Manager 2 thinking they were the same thing, only with different titles – some even thought the two were going to be incorporated because you manage your side like in Championship Manager and when you get on to the field you get to play the action in arcade fashion with Total Football.



Austria versus Cameroon is always a good, solid game of two halves. Heh, I don't think so...

At the beginning of the game you get to choose between a standard friendly or league, knockout and cup competitions. Before you begin the game you can also tinker with the options which range from match length to pitch conditions. When you actually



The All Stars team is truly ream. It should be called the All Ream team just for fun



Ooh – look at that. England and Scotland. Er, I can't remember the score. I do screenshots before captions

No score draw

It's pretty difficult to score in this game. I had to wait five matches before I managed to put the ball away in open play. It seems the easiest way to score is via a penalty, so if you jog about in the box like a madman someone's bound to tear your legs down. Consequently, it seems as if Total Football has a flaw – but not if you turn the fouls option off.

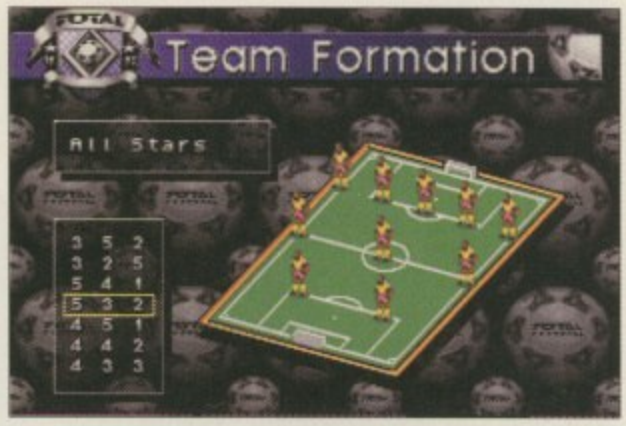
If you do manage to score a half decent goal your player will run off in delight to the crowd, either to display his happiness or his nipples. Yes, even in computer games scorers have had the rush to rip off their shirts, only to face the inevitable fine from the club.

get into the competition you desire you will find that the only teams available to you are international sides. And after you select your formation from many it's out on to the pitch for some footy action.

Unfortunately, there are no real player names but some of your players are distinguished in other ways, for example you may find a player in your side is completely bald. The only way I can explain the pitch view is that it is isometric FIFA-like – only the camera view is slightly higher up. Also, incidentally, the camera angle cannot be changed.

The first problem that hit me was the control method. When you press up on the controller your player will run up the pitch. Nothing wrong with this, I suppose, except it is quite bizarre bearing in mind the angled isometric pitch. In these games I usually prefer the player to run up the pitch in an up/diagonal way when I press up so I know how to aim shots, otherwise you'll be all over the place – like I was. It will take some getting used to but after a while you should be knocking in goals left, right and centre.

The shooting system is also pretty awkward because you have to press the fire button once to pass, twice for a bit of a shot, and three times for an absolute crack up field. Obviously, you end up using the latter because



You can select from a number of formations and they are all officially ream. Possibly even reamer than ream



Here's a shot on goal. If you score you get one point. Damn, I've said that already!

passing the ball around is not as easy as you think. The computer seems to enjoy taking the ball off the end of your boot and storming forward to smash the ball into the back of the net. Ooh, thanks.

The presentation in Total Football is pretty good. The graphics are nicely drawn and, surprisingly, there are many crowd chants, along with some geezer who insists on thrusting in certain comments about the action.

Final word

Overall, Total Football isn't bad. It's certainly a good effort which will undoubtedly give Amiga owners much relief to know that football games are still being made. But I have a feeling Total Football's success will be very short lived. As soon as Championship Manager 2 is released I think it will be slightly overshadowed, which is a real pity. Oh well.

> 'The computer seems to **enjoy** taking the ball off the end of your boot and **storming** forward to smash the ball into the back of the net'

Here's a save by the goalkeeper. Yes, the goalkeeper. The goalkeeper's job is to keep the goal

Here's a corner. You kick the ball in from the corner of the pitch hence the name 'corner'. Exciting isn't it

SYSTEM
review

XP8



Reviewed by Andy Maddock

Here's a nice title screen which represents spacey war-type things which blast things in space. I put that well

GRAPHICS 89%
SOUND 87%
GAMEPLAY 90%
OVERALL 90%

PUBLISHER
WeatherMine Software

DEVELOPER
In-house

PRICE
£19.99

DISKS
4

HD INSTALL
Yes

SUPPORTS
A1200

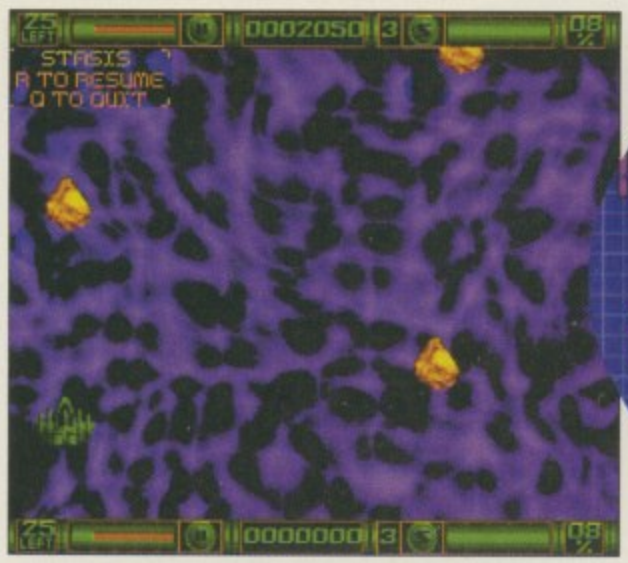
If you think of how many genres of games there are it's difficult to believe there is only one which I truly hate. You may think it's adventure games because you either love them to bits or you deny they exist, but no, it's not adventure games and it's certainly not platform games because ooh, I love them so much. So what can it be? Have a wild guess.

Since Xenon and Xenon 2 there hasn't been a single shoot-'em-up which has impressed me enough to play it. Okay, so Project X by Team 17 couldn't be accused of not attracting my attention, but it wasn't exactly a breakthrough in computer game technology now was it? It looked nice but played as well as Leicester City – promising but still rubbish.

So as you've already gathered, I'm not the world's best lover of shoot-'em-ups. But what makes them so original is the fact they have originated all the way from the early arcades and have hardly changed. The graphics are far better (in some cases), but the gameplay is just as good as it ever was on the early versions, which to this day are still knocking around corners of some of the older pubs. The



Ooh, here's another title screen. This one says 'Options' on it though. See, subtle differences



You can see immediately the relationship between XP8 and Stardust. Can you? Eh? Eh?



That green thing is your space mobile. It goes like the clappers, although there are no green men here...



The electricity bolts will fly up and hit your face on this level and I'm not kidding. Oh alright... I lied



This is a nice big beastie. It's a beastie and it's big. If you destroy it you will be rewarded with a beefy power up

days are gone where you would drink ten pints and challenge someone to a game of Asteroids. Admittedly, you would fall over unconscious before you lost all your lives, but the point is the fun was there to be had. Why don't they do this with the Amiga?

You may think XP8 looks like one of the many hundred shoot-'em-ups but I assure you, it features much more than your average blast-'em-up. If you can remember a game called Battle Squadron from the early days of the Amiga, then imagine that but with better graphics and a more polished look and feel.

The programmers describe it as 'Banshee with sugared Stardust on top'. You can see why too. It has the playability of Banshee and the typical ray traced graphics we saw in Stardust but, in my opinion, XP8 is better than both.

The game features five levels which contain all those clever ray traced-like baddies like Stardust, so it's easy to see that they've taken time with the graphics. There's also a two-player mode so you and a mate can combine force and try to destroy the enemy. As you destroy more ships they will reveal power ups and more weapons – there are eight all together and can all be increased five times in power. Finally, when you reach the level end you will be confronted with a huge beastie which will throw out homing missiles, amongst other things.

> 'The programmers describe it as **'Banshee with sugared Stardust on top'**. You can see why too'



There wasn't enough space to explain all the options so I took a screenshot of the screen to hurry things along

The game is well presented featuring attractive introduction screens instructing you on the next mission because XP8 isn't just a straightforward points fest, there are missions to complete. There are some nice touches too, for example when your ship gets hit the whole screen flashes brilliant white and shakes about as if you've really been hit, which makes all the difference to a standard little explosion sprite.

You can customise the options so you can control the game. Everything involved in the game can be changed which is a good thing because if there's something you don't particularly like you can just alter it or scrap it completely. This just shows how much thinking has gone into the development of this game.



Here are some medals. I presume this is something to do with ranking. I said RANKING!

Final word

Overall, it features some excellent graphics and sound effects and is one of the most enjoyable shoot-'em-ups ever to be released. It's what gamers everywhere have been crying out for since the demise of games like Xenon and Project X. Order a copy now, you won't regret it.

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Frank Nord shows us a few good ways of cleaning our Amigas **89**



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When your Amiga is filthy and your screen dusty, what do you do? Frank Nord'll tell ya

medical

First aid for Amigas

Amiga owners of long standing are a mixed bunch. For every one that is scrupulous about the cleanliness of his or her machine, there will always be the 40-a-day user that casually keeps his Coke *inside* his or her keyboard, presumably so they can tip it out at a later date when the fridge is empty. For all you slobs out there, you could actually make an effort to ensure your machine is nice and tidy for special occasions – such as for when your neighbour comes round for tea and to play a head-to-head match of Worms, or maybe, just maybe, you might need to show your Amiga's best efforts to someone in order to get a job. Well, you never know...

So the thing is, what should you use to make sure your Amiga is kept in tip-top condition? And no, a mop and bucket filled with bleach is not a good idea, at least not while the machine's on. You shouldn't even go around spraying Mr Sheen everywhere either. Your best bet lies in purchasing a few bits and bobs from your handy local electronics store. In the UK there's a chain of shops (and a mail order service) called Maplins – there may be a similar thing where you live – and you should proceed there at full speed in order to procure some of the items I will mention in a mo.



An Amiga owner's work is never done

Sparkly

The sorts of things you will need to get will vary depending on whether you have a big box Amiga, or just an A500, 600 or 1200. For these machines you will rarely, if ever, need to visit the internal working of your Amiga, but most people have the lids off their 2000s, 3000s and 4000s more time than they've had dinners that were hot but that have become a bit cold and congealed because they were busy doing something on their computer.

So what do we need to get to keep the machine not only in full working order, but also looking as sparkly as the day you removed it from its packaging? Starting with externals, the keyboard and mouse are the items that get the most dirt on and in them. Typing when you've just had a pop tart may have seemed essential at the time, but sticky keys attract grime in large quantities, so the first thing we are going to want is some sort of cleaning product. Most electronics stores sell a range of aerosol-based foam cleaners and you should look for one that is also anti-static and preferably inert so you can spray it everywhere without the fear that it may damage some component in your keyboard or floppy drive.

To clean the foam off you can either use lint-free cloths (also available where you get the spray), cotton buds, or, best of all, a pig hair brush. These are a lot harder to find, but the effort is worthwhile because they clean your keyboard best of all without being too harsh. For the outside of your mouse these same implements will be fine and for the inside you can either use a cotton bud, your fingernail (!), or a dedicated mouse cleaner which looks like a barbell for a hamster and has absorbent pads on each ends which you can spray cleaner onto.

You can also use the same spray cleaner for your Amiga's case and monitor, but you should try to get screen wipes for the monitor's screen itself, mainly because it is quite hard to achieve a smear-free screen using the foam cleaner.

If you want to really get that deep down clean feeling in your keyboard (and inside your machine), Maplins also does an aerosol containing inert gas that can be used to blow the dust out of cracks, crevices and other hard to reach areas of your machine. This stuff is also ideal if you have used cloths that aren't quite as lint free as they perhaps ought to be and have left bits all over the surface you were trying to clean.

For that finishing touch, if you are a Zorro II/III card user and you really want everything as clean as clean can be, you can remove your cards from their slots and buff up the contacts by using a normal pencil rubber on them (the white plasticky Stabilo Boss eraser is particularly suited to this purpose). Make sure you blow away the bits of rubber before you re-insert the cards in your machine.

Sticky moments

Last, but not least, I bet you have a whole stack of floppy disks that sit on your desk with the labels half ripped off from where you were trying to remove them but failed dismally. Well, Maplin even have a cure for this ill with a spray-on label remover. It works beautifully on pretty much all the labels I've tried it on. You simply spray it over the entire label and leave it for a few minutes and then the label should peel off really easily. It is a bit of a messy job and the spray smells a bit stinky, but it's certainly an awful lot easier than sitting there cramped over disks thinking you will be able to remove the whole label in one go, just a bit more, then the thing rips and you're left with only the sticky backing of the label on the disk and you know there's no hope of removing it...

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by 30 SEPTEMBER 1996

Paul Overaa takes a two-part look at those protection bits that Amiga DOS provides

assembler

Protection racket uncovered!

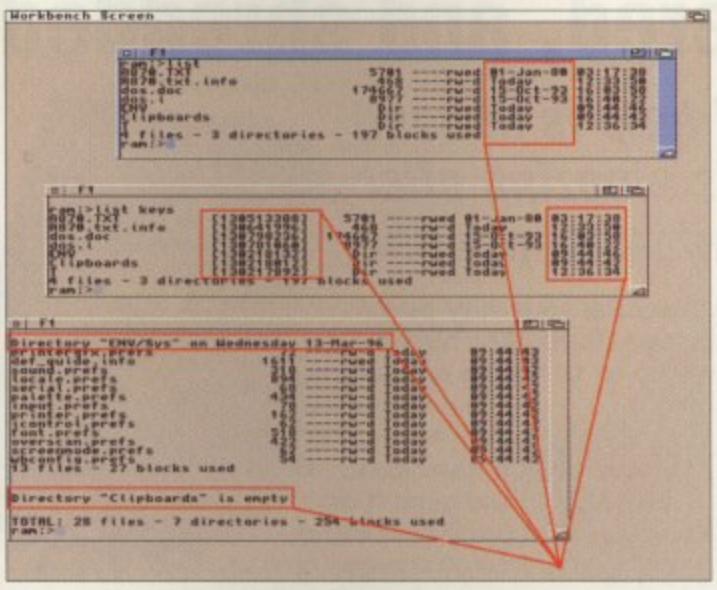
part 1

Every Amiga disk file has a selection of protection flags associated with it that identify such things as whether the file is deletable or not, and you see the states of the various file flags whenever you use the LIST command. There is another Shell command, PROTECT, that allows individual flags to be set or cleared as required. At this level the flags are represented by letters: 'r' signifies that the file can be read, 'w' that the file can be written (altered), 'e' tells you the file is executable (in other words it is a program), 'd' that the file can be deleted, and 's' that the file is a script.

Two other flags, 'p' and 'a', are also available, with the 'p' entry being used to signify that the file is pure, i.e. can be made resident and therefore kept in memory to be run and re-run without ever needing to be re-loaded. There's nothing intelligent about this as far as AmigaDOS is concerned, it takes these flag bits at face value. If, for example, you set the pure bit for a program whose code is not pure, AmigaDOS won't realise this and will be happy to make the program resident regardless (not usually a wise thing to do)! The 'a' flag is the archive flag and this is set by utilities which carry out archiving and backup operations. It's because the 'a' flag is always cleared when a file is edited that these utilities are able to identify files which have been changed.

```
STRUCTURE FileInfoBlock,0
            LONG        fib_DiskKey
            LONG        fib_DirEntryType        ;If < 0, then plain file. If > 0 a directory
            STRUCT      fib_FileName,108        ;Null terminated. Max 30 chars used for now
            LONG        fib_Protection          ;Bit mask of protection
            LONG        fib_EntryType
            LONG        fib_Size    ; Number of bytes in file
            LONG        fib_NumBlocks           ; Number of blocks in file
            STRUCT      fib_DateStamp,ds_SIZEOF ;Date file last changed
            STRUCT      fib_Comment,80          ;Null terminated comment
            UWORD       fib_OwnerUID            ;Owner's UID]
            UWORD       fib_OwnerGID            ;Owner's GID
            STRUCT      fib_Reserved,32
            LABEL  fib_SIZEOF       ;FileInfoBlock
```

Listing 1: FileInfoBlock structure definition



Almost all the information that the AmigaDOS LIST command provides is pulled out of FileInfoBlocks set up by using quite high-level DOS library functions!

Checking up

The easiest way to check the state of any of the protection flags associated with a particular file is simply to use the AmigaDOS LIST command. Any flags which are set will be shown using the above lettering scheme, whilst those which are not set will be indicated by dashes. If, for example, you create a text file called myfile.txt, and then list the contents of whatever directory you created it in, you'll see an entry which looks something like:

```
myfile.txt          326         ----rw-d
Today    14:09:14
```

The line represents the filename, the file size, the current state of the protection bits, and the date and time of creation. To protect this file from deletion you would clear the 'd' flag using the Shell command:

```
protect myfile.txt -d
```

where the minus sign before the 'd' signifies that the specified flag bit should be cleared. Having done that you should be able to confirm that the delete flag is clear using the LIST command, and if you then try to delete the file you'll get a 'Not Deleted' error message along with a note to the effect that the object is protected from deletion. Reset the flag using the same protect command but with the '+d' option and the file becomes deletable again.

Looking inside the file

Although AmigaDOS commands use letters for the various file protection flags, underneath the surface each flag is represented by the position of a single bit. The bits themselves have standard system names and nowadays you'll find quite a collection of these defined in the dos.i assembler system header. The most important ones, however, are defined like this:

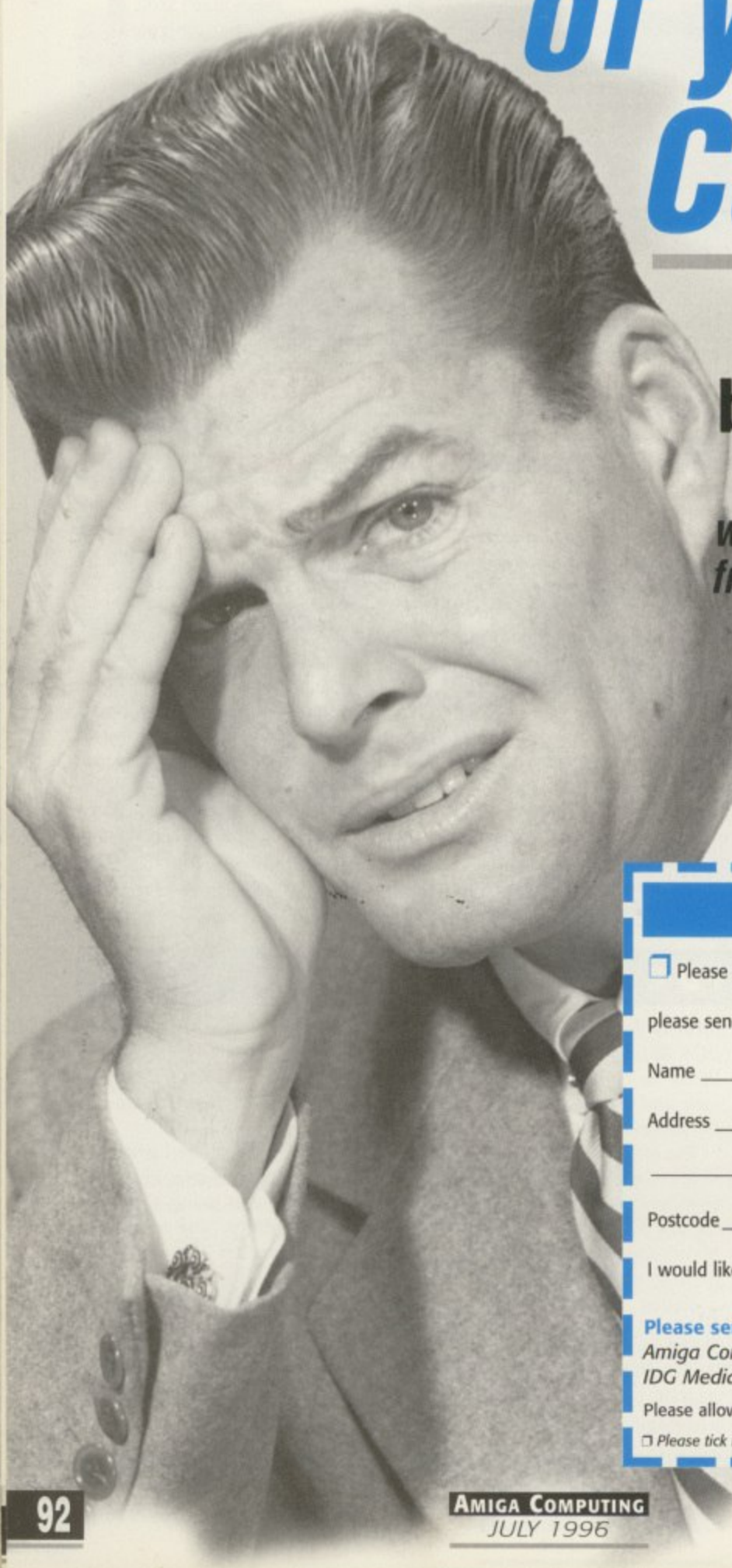
```
BITDEF FIB, SCRIPT   6          ; program is a script (executable) file
BITDEF FIB, PURE     5          ; program is re-entrant and re-executable
BITDEF FIB, ARCHIVE  4          ; bit cleared whenever file is changed
BITDEF FIB, READ     3          ; actually ignored by old file system
BITDEF FIB, WRITE    2          ; also ignored by old file system
BITDEF FIB, EXECUTE  1          ; used by Shell
BITDEF FIB, DELETE   0          ; prevents file from being deleted
```

Within the file header block of each file there is a 32-bit (long word) area that is used to store the current state of these and other protection flags. You never need to access this file header data directly because the current values can be retrieved by using the DOS library's Examine() function. I'll be looking at this function in detail next month but basically, all it requires is a pointer to a file lock and the address of a suitably sized block of memory for storing the returned file information.

The structure used to hold the information that Examine() provides is known as a FileInfoBlock. It is important, incidentally, that this structure be long word aligned although if you're using the exec library AllocMem() function to allocate the structure, this alignment occurs automatically (all exec memory allocations are guaranteed to be long word aligned).

Listing 1 shows the layout of the FileInfoBlock structure and the field containing the protection flags is, of course, the one called fib_Protection. Retrieving and altering the state of these flags is actually not that difficult and the only bad news regarding this is that I'm afraid you'll have to wait until next month to find out how it's done!

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Designer scripts

Paul Overaa outlines a script development technique for writing programs

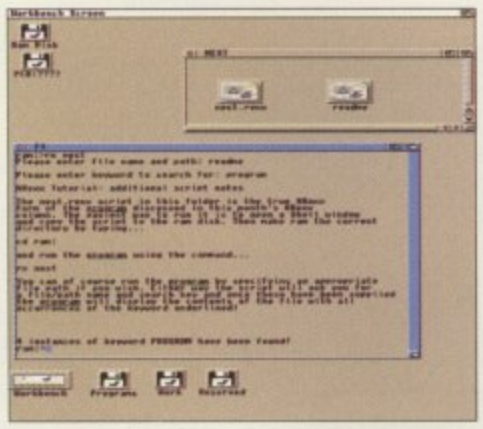
When writing ARexx scripts of just a dozen lines or so, most people will tend to do it off-the-cuff as it were – by sitting down in front of their Amiga and just typing in the code which they feel will do the job. And that's fine – even if the script doesn't work first time, a few bug hunts will usually find and eliminate any problems.

The only bad news is that this 'suck it and see' method of creating scripts really only works for small programs. As scripts get larger you need to be a little more systematic and, in fact, the more effort you put into the original planning of a script, the better the results are likely to be. One of the techniques I use, however, has shown itself to be consistently reliable and capable of producing code that, barring the silly syntax slips that we all make, enables even large scripts to be created relatively easily.

The idea is to first create the main structure of the script using nested subroutines coupled with a sort of 'ARexx pseudo-code'. Having got this initial basis of the script right, the refining stages, i.e. converting the pseudo-code to real ARexx statements, is relatively straightforward.

Keywords

To provide an example, I've chosen a nice easy task – namely the creation of a script that will search a given text file and count the number of occurrences of a user-specified keyword in the file, underlining all the keywords found. The ordering of some of the things that such a script will need to do should be fairly obvious. You do, for instance, need to open a file before you can read from it. Similarly, you must know the name of the file before you can open it. So collecting the filename and keyword, and then trying to open the file are fairly obvious first steps to be carried out. We do, of course, need to remember that the specified file may not exist and cater for this possibility. With the approach I'm advocating the code for, all these eventualities



This month's script being used on the associated coverdisk readme file!

become isolated into separate functions and I'd sketch out these details something like this:

```
Collect name of file and keyword to search for
if File Opened OK then call FileOpenOK() else
call FileOpenNotOK()
```

If the file was not found we would presumably like to put up some sort of error message. Pseudo-code for these actions can be written very easily:

```
FileOpenNotOK:
Display error message and flash screen
return
```

If, however, the file did open OK we would want to read lines of text from it and examine the words in each line. The trick now is to concentrate on just the line reading part of the problem. It should be pretty obvious that some loop code is going to be needed and by assuming that an ExamineWords() routine exists that can handle the word-related issues, I can write the line reading loop very easily indeed:

```
FileOpenOK:
do while NOT end-of-file
          Read a line of text from the file
          call ExamineWords()
end
return
```

Notice that I'm successively working through the tasks that need to be carried out and having now got to the stage where lines are being read from the file, the next stage is to think about what must be done with each line, i.e. to decide what actions our ExamineWords() routine will have to perform.

We need a loop to read each word from the line and check it to see whether it matches the supplied keyword or not and, to cater for possible case differences, I've chosen to compare uppercase versions of the words. As far as the design issues are concerned, the important point with this area of the problem is that we need two ways of displaying a word – routines for both normal and underlined word display are needed. Again, I just assume these routines exist and place appropriate function call references into the pseudo-code sketch like this:

```
ExamineWords:
For each word
do
          if uppercase keyword=uppercase word
then call ShowUnderlined()
          else call ShowPlain()
end
return
```

These ARexx pseudo-code sketches represent the main jobs that have to be performed. Creating a blueprint for the real script is now really just a matter of putting the individual fragments together and you'll see the results of this in listing 1. From this point on, producing a real script is just a matter of expanding the pseudo-code statements. You'll find the finished script on the coverdisk and will see that I've defined various text and constant terms using a g. stem.

The reason is that by exposing this stem I'm able to make all such definitions available throughout the program, yet still keep them all collected together at the start of the code for easy reference!

```
Initialise count variable to zero!
Collect name of file and search keyword
Try to open file!
if File Opened OK then call FileOpenOK() else call FileOpenNotOK()
Say count 'instances of keyword' keyword 'have been found'
exit /* logical end of program */

FileOpenNotOK:
          Display error message and flash screen
return

FileOpenOK:
          do while NOT end-of-file
                    Read a line of text from the file
                    call ExamineWords()
          end
return

ExamineWords:
          For each word
          do
                    if uppercase keyword=uppercase word then call ShowUnderlined()
                              else call ShowPlain()
          end
return

ShowUnderlined:
           Display word in underlined text
return

ShowPlain:
          Display word as normal text
return
```

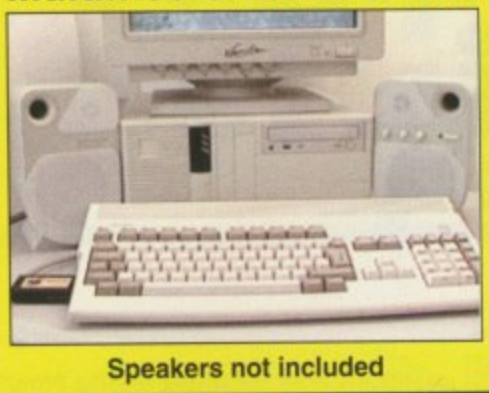
Listing 1: An ARexx style pseudo-code sketch of the tasks to be performed

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Dave Cusick wonders whether the Amiga is finally catching up with the Mac and PC

comms

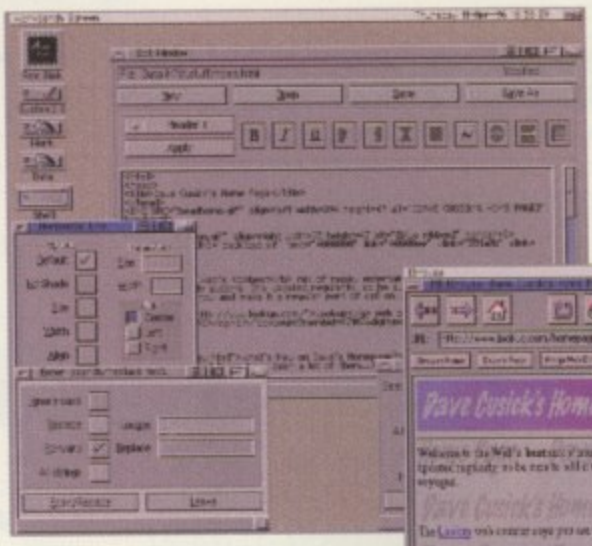
Leading the way

There have been incredible leaps forward in Amiga Net software recently, with the appearance of such decent programs as IBrowse, AmFTP, AmIRC, Voodoo and YAM. These drag the Amiga into line with the PC and Mac in their respective areas – in some cases, even ahead of the field. Indeed, I recently discovered that an e-mail correspondent of mine using a Sun SparcStation running Unix couldn't in fact read a MIME-encoded attachment I'd sent him with Voodoo.

At last there are even some ingenious ways of using AmiTCP to waste time and run up astronomical phone bills. Witness AmiSlate, which on a basic level allows you and a Net friend to draw on the same screen. The real strength of AmiSlate, however, lies in its ARexx interface, which makes it possible to play simple games such as Noughts And Crosses, Backgammon, Checkers and Chess over the Net using scripts. Various game scripts are included with the distribution archive, and others are available on Aminet. In time we may see some more complex AmiTCP games appearing.

There's also an Internet 'phone program for the Amiga now, whereby you can chat with somebody anywhere in the world for the price of a local call to your ISP. It's called AmiPhone and it is quite impressive although, as yet, it is not compatible with similar programs on other platforms. To use it you will, of course, need a sound sampler, and a really fast connection is desirable if not totally essential – reasonable results can be obtained using a 14.4k modem.

With the Web gaining so much attention in the media, it was also reassuring to spot the appearance of a few new HTML editors on Aminet recently. Although the text editor add-on HTML Heaven has been knocking around for a while, it's not a patch on the newcomer Webmaker, a MUI program by Pascal Rullier which is currently at v1.1. Apart from speed problems when editing large documents, Webmaker is a joy to use. It doesn't yet offer WYSIWYG but a decent Web browser can easily fill this gap. There is also talk on IRC of a program called WebEdit which is now in beta testing and could well challenge Webmaker's current supremacy.



Webmaker: at last there's an alternative to creating HTML documents entirely by hand...



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However there are still some important areas where our beloved machine lacks quality software. Whilst as Phil South noted a couple of issues ago it would indeed be nice to see flashy programs like CU-SeeMe well implemented on the Amiga (ACU-SeeMe is still rather primitive), I would suggest that the most obvious area in need of attention is News handling. At the moment the choice is pretty much limited to Thor, GrN, Tin, or similar. Whilst all fairly capable, none are particularly easy to set up and they are still some way short of the ultra-friendly, ultra-efficient feel of the other leading Amiga Net applications. Interestingly, the Amiga Surfer pack does not yet seem to address this problem. Any industrious programmers out there?

Another sensible suggestion made on IRC recently was that someone should write a RealAudio datatype so that the Amiga could make use of this increasingly popular audio format. I don't know enough technical details to know if this is even possible, but it would certainly be a welcome development if it was.

Battle of the browsers

At the time of writing, opinion is very much divided in the Amiga-oriented newsgroups and IRC channels on whether AWeb or IBrowse is the better browser. Undoubtedly, those in favour of AWeb point at its rather superior stability across a wide range of Amiga platforms, and the FTP and Mail plug-ins which are already available on Aminet. However, in its current version, AWeb only supports HTML 2. Admittedly this was the last 'proper' revision of the Hypertext Mark-up Language, but IBrowse already supports the large number of Netscapisms which are so prevalent on the Web these days, whereas AWeb is saving this for future shareware releases.

The latest version of IBrowse is 0.81, although by the time you read this it could be another release or two further on in its development. Version 0.81 certainly seems fairly stable on my system, but it apparently still crashes occasionally on certain machines. However, the new internal image decoder seems excellent, and the MUI-based GUI strangely appears faster than the fairly ugly and much less configurable ClassAct GUI of AWeb. I must confess that at the moment, I fire up IBrowse considerably more often than AWeb.

Meanwhile, I've still yet to lay eyes on Mindwalker, aka Voyager, the official Surfer Pack browser. The wait also continues for the multitude of other browsers promised for imminent beta release for some months now. Little seems to be happening, for instance, on the home pages of Juggler, Hyperion, and the particularly interesting Java browser port P'Jami.

Mailing me

If you've any comments, suggestions or queries you can contact me at dave@dcus.demon.co.uk, or davecus@idg.co.uk.

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Our second guide to earning your keep by creating stationery packs, by Frank Nord

Completely stationery

part 2

Welcome back. This month I'm going to have a shufty at the other side of stationery – that for businesses. As with personal letterheads, the idea for you as the layout guy is not to make unnecessary work for yourself. If you just offer a variety of designs, that's great, but you shouldn't overwhelm your potential clients with all 300Mbs of your font collection. Start with a few pre-set designs, and if you want to really jazz them up, go for overprint paper from PaperDirect or one of the other suppliers. I really mean it, these overprint papers are the best thing to happen in DTP since the advent of cheap colour inkjets and, unlike inkjet-printed designs, they look really professional.

When you are designing a stationery pack for a company, the most important thing to bear in mind is that there has to be a consistency to your design across the different parts of the pack. Never change fonts for the compliment slips, or centre text on a business card if it is all right justified on the letterhead, compliment slips and so on.



Have you got a Linotron in your bedroom?

Print order

What items go into your stationery pack is up to you, but they should always include letterheaded paper, continuation paper (which is usually plain, but if you are using an overprinted paper you may want to include coloured continuation), compliment slips and business cards. Other items may occur to you, especially if have one of PaperDirect's catalogues – three fold brochures, printed envelopes, gold foil overprints and much more – but don't go crazy unless your client wants that kind of stuff specifically. It's definitely not worth spending the money unless you have a use for the products.

The other thing to bear in mind about stationery packs is that it might not actually be commercially viable for you to produce hundreds of printed sheets (especially if you have to use an inkjet printer), and business cards of the sort that can be run through a laser printer aren't as impressive as ones printed by offset lithography. This is where you really want to befriend your local printer. A lot of printers can be very standoffish if you aren't using a Mac to output your camera-ready artwork, but try to persuade them to experiment with what you are producing – any printer worth his salt will recognise a potential customer when he sees one.

So how do you go about producing camera-ready artwork for a printer? I think I would probably be right in assuming that very few of us have an imagesetter in our back bedrooms, so what are the alternatives? Firstly, you can produce camera-ready artwork on your own printer, (but if you are using an inkjet, make sure you are using the best possible quality paper, one that doesn't bleed or wrinkle, and you can forget this option if you are still using a dot matrix of any sort). Remember that if you are expecting colour from the printer, you will need to give him (or her) separations rather than colour output from your printer.

Output

Alternatively, you could give them postscript files that they can then output on their imagesetter. A postscript file (not an EPS, but postscript printed to disk) is a large ASCII text file that can be sent via modem or taken to the printers on disk (if you have pictures in your document the postscript file can be very large. If you intend to do this kind of thing as a business it will definitely pay for you to buy a Zip drive or something similar). They should then be able to download this file directly to their ImageSetter and show you the output.

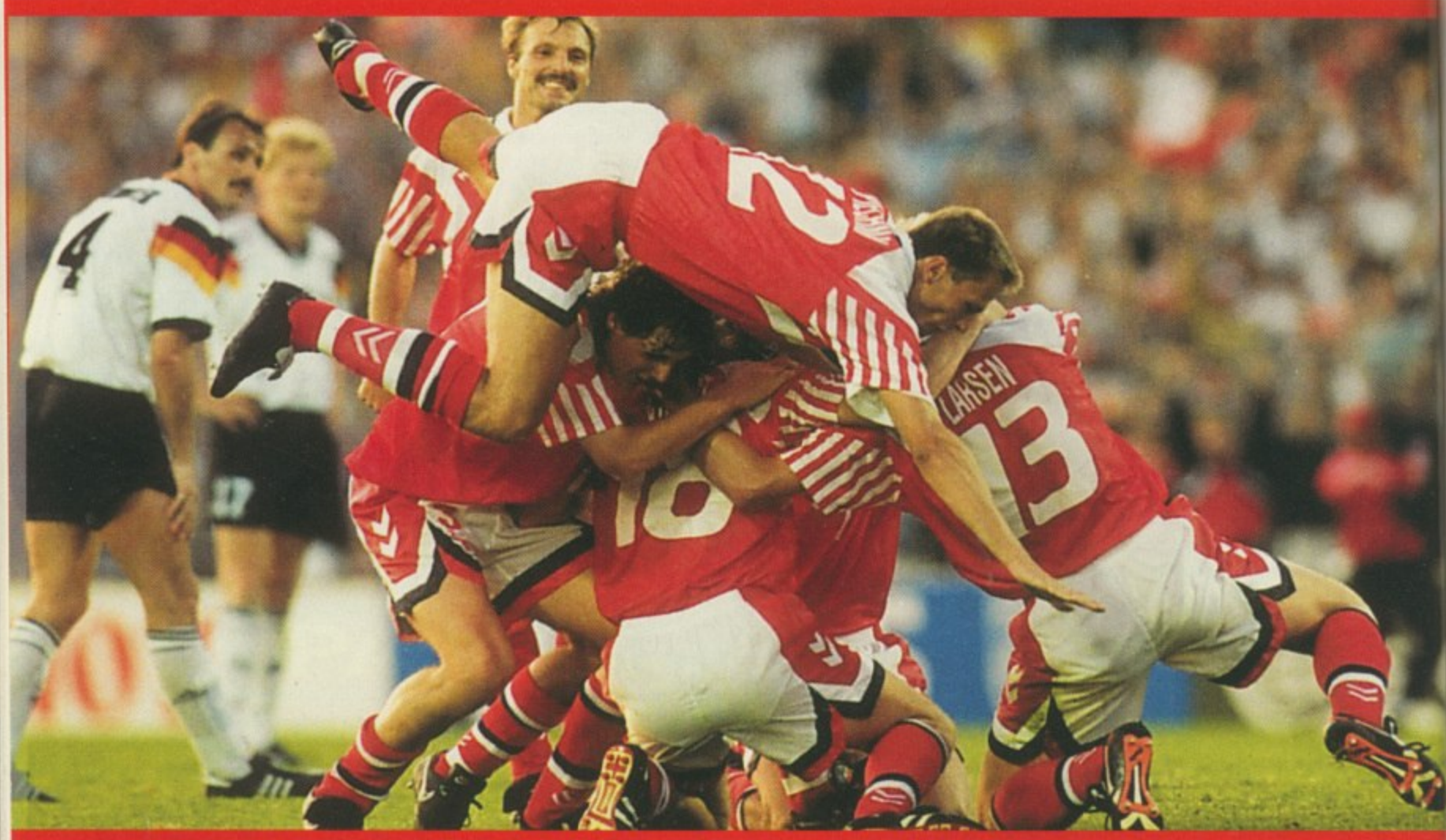
One thing to bear in mind is the fonts you will be using for the document. If they show you postscript output that has the courier font badly spaced out on it, then the chances are the imagesetter doesn't have the fonts it needs to output your document accurately. You can get around this in one of two ways. You can either stick to fonts you know your printer has in his library, or you can take the fonts to the printers as well as the document, but make sure, if you choose this option, that you are not breaking copyright by handing over the font files you need for your layout.

Colour considerations

If you are going to be producing colour camera-ready artwork for a printer to use then your choice of DTP program is going to be very important. On the Amiga the only currently available commercial package is PageStream 3. ProPage is available from lh publishing but is not being updated, so is now looking somewhat old fashioned. However, if you don't already have a DTP package, this doesn't mean you should simply go out and buy PageStream, especially if you intend producing colour accurate output. The term in question here is colour accurate because ever since PageStream first came out, it has always had a somewhat cavalier attitude towards colour, and even simple EPS clipart doesn't always come out as expected. While ProPage is no great shakes, it would pay to invest in a copy purely for layouts that need to be separated in colour (and that have to be accurate).

Denmark's Christmas tree formation collapses!

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Phil South continues his new series about how to plan an Amos program project

Back to basics

part 2

As I said last issue, interface development is a crucial issue in the making of any new bit of software, and the user should know just by looking at your screen what he has to do and which button he should press to get the effect he's looking for. With this is mind, we'll focus this month on designing the interface.

Taking our trusty pencil and paper, we draw out the look of the screen we're looking for. I prefer the propelling pencil myself, partly because they don't need sharpening but mostly because I think it makes me look a bit technical. The example we'll be using over the next few months is an electronic product brochure whereby people can look at your products and check out the specs. You could go haywire and show people how the things sound too, but in this case we don't need to. This design could be adapted to any kind of multimedia program like an interactive recipe book, a reference book, in fact anything where you've got a lot of things you need to show and you want the user to be able to find out what he's looking for easily.

Sketching out the interface is the easy part. What's hard is finding out where to put the buttons on the screen. One of the easiest methods I've found is to use Amos itself to draw boxes on the screen, thereby supplying yourself with the basic co-ordinates system you will be using in your mouse zones – the thing which senses the mouse clicks over a certain button. In other words, the process is as follows:



Amos-drawn boxes act as a template for your interface

1. You decide on paper what your interface will look like, which boxes go where and which buttons etc.
2. You get Amos to draw boxes in the right places, and by trial and error get them all lined up and looking okay.
3. You save the screen off as an IFF file which you then load it into Dpaint, Photogenics or Personal Paint, or whatever you do your image processing in.

Basing the interface graphic on something you already have the pixel co-ordinates for is better and quicker than finding out the co-ordinates later. You *can* check out the co-ordinates using Dpaint, but I've found this to be a little bit tricky because Dpaint has 0,0 down at the bottom left-hand corner, and Amos uses 0,0 at the top left. For this and various other reasons I find the Amos route preferable. Keep it in the family so to speak.

Having made your button template, save the Amos program which made those boxes – we'll be needing it later – and save the screen using SAVE IFF. For example, I made the following program to draw my basic interface:

```
Screen Open 0,640,256,16,Hires
Box 10,10 To 440,160
Box 10,170 To 80,200
Box 95,170 To 170,200
Box 185,170 To 260,200
Box 275,170 To 350,200
Box 365,170 To 440,200
```

This produced the basic Amos screen you see on this page, which was skilfully wrought into the roughly finished interface design you can also see on this page. Making button templates in Amos is mostly a matter of mathematics, as in the above example: The main window is 10+440 wide and 10+160 deep. This means the box is 540x170. Each button is 70x30 and has a space of five pixels between them. To work out the next co-ordinate for the next button add 90 to the first number of x and y: 95 becomes 185, 170 becomes 260 and so on. The row of buttons matches the main window by dint of adding up to the same amount of pixels. See? Work it out on paper and use a calculator, and you'll get it right first time.

PSEUDS CORNER

The interface designed, you will then need to start figuring out the pseudo-code for the program itself. What order should things happen? Well in this case, using our example of an arcade game from last month as a template, it would look something like this:

```
start
initialise variables
set up the screen size, colours etc.
load the interface graphic
start the music
start main program loop
          check for button hits
          if there is a hit then activate hit subroutine
                    if not continue
go back to start of main program loop

hit subroutine
          which button was it?
          make button sound to give feedback
          load chosen graphic or perform chosen action
return to main loop
```

Next month we'll be going into this part in more detail, and starting to flesh out some of the code.

WRITE STUFF

If you have any other Amos programs or queries about Amos, then please write to the usual address, which is: Phil South, Amos Column, Amiga Computing, Media House, Adlington Park, Macclesfield SK10 4NP. Please send routines on an Amiga disk with notes on how the program works on paper, not as text files on the disk. Make the routines short enough to appear in print, i.e. no more than about 30-40 lines of code, and if possible make them use no external graphics, or if they can't be used without them then be sure to provide them on the disk in native IFF format, and the same goes for sound files. Follow these guidelines and stand a better chance of being published. Okay, no guarantees, but leave a fiver in the package too, and I see what I can do, okay? No questions asked... *(Oi, what's going on in here? Ed)* Nothing, nothing!

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Paul Overaa takes a look at some music composition programs for the Amiga

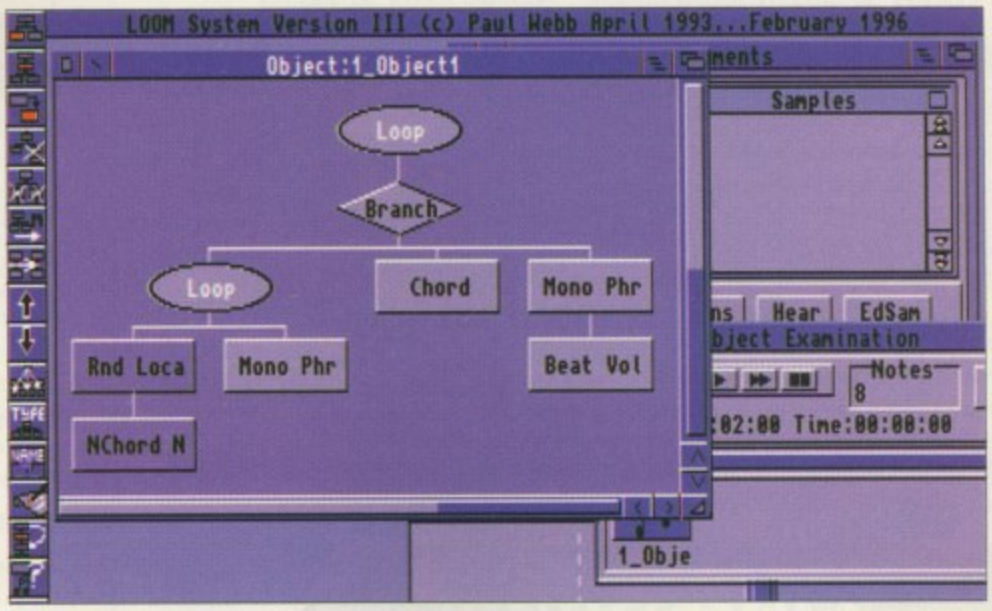
Auto music

Most Amiga owners who use sequencers or trackers for making music would agree that the software they use always tends to go some way towards either helping, or hindering, their 'creativeness'. Some packages, such as the now defunct Blue Ribbon Bars & Pipes Professional, had a whole range of tools available that could massage existing musical ideas in such a way that at times it almost seemed to think for itself.

The idea that computers could be used not just for storing and editing music files but for actually generating original music is not new and, even on the Amiga programs like Music Mouse (which allowed users, usually rather unsuccessfully, to try and create musical themes by moving the Amiga's mouse around), have been around for a long time. In terms of success stories, the only composition program that ever achieved any real acclaim was Blue Ribbon's SuperJAM. Purists will argue, however, that SuperJAM wasn't a composing program in the strict sense (because it didn't create music as such internally it used prewritten sequences). Musicians didn't actually care about this – all they knew was that SuperJAM was easy to use and it could produce arrangements that actually sounded good!

Sequencers in the main do not go down this sort of 'algorithmic composition' road at all, although Dr T's KCS does have a utility called the PVG (Programmable Variations Generator) which allows you not only to modify existing musical ideas but produce totally original sequences. PVG is a nightmare to learn about and even more of a nightmare to get anything useful out of. The manual itself says it all: "PVG is not optimised to produce music that is immediately pleasing to the average listener." KCS users doubtless agree with that sentiment because in almost ten years of being involved with KCS sequencer users, I've never once met anyone who felt that PVG had been creatively useful to them!

Another program that follows this trail is Dr T's interactive composing system, M. This is certainly easier to use than the PVG program but M, too, would seem to have received little acceptance from the Amiga's musical community in general. The package is, however, still available from companies like Off Planet Media (tel: 01159 531131).



LOOM is a clever piece of software but whether Amiga musicians will take to it or not is another matter

Enter LOOM

As far as algorithmic composition programs are concerned then, Amiga users do not seem to have been impressed with the packages they've been offered to date. And in the wake of this rather gloomy news, guess what – this month sees the first official release of a new algorithmic music composition package called LOOM.

The program is 'object oriented' and allows music to be created by assembling objects (notes, chords, arpeggios, drum patterns and so on). Phrases can therefore be built up, manipulated, used as the basis for larger sections of music and so on, and, in fact, much of the power of LOOM comes directly from its ability to use and transform existing definitions. It's pretty obvious that a lot of work has gone into LOOM and it is certainly far more sophisticated, and much easier to use, than programs like Dr T's Programmable Variations Generator. LOOM, incidentally, is Amiga internal sounds based, although a Midi version of the program is under development.

I think the difficulty that musicians will have with LOOM is that the underlying ideas are still, by their very nature, going to seem complex. LOOM object construction involves things like flowcharts, use of networks and, in some cases, even the use of equations. You don't, however, have to define all your music from scratch in this way – there are around 200 predefined drum patterns and a whole disk full of quite impressive pre-defined object files to help you on your way.

LOOM is certainly going to be great for experimenting and if you have a little knowledge of programming or are interested in algorithmic music composition systems as a subject in its own right, then LOOM is going to be worth looking at. For everyone else though I'm not so sure!

Bottom Line

Requirements

4 Mb of memory to run

Product Details

Product:	LOOM
Price:	£30 (+ £1 p&p)
Phone:	01903 850378
Supplier:	SeaSoft Computing

Users of earlier, experimental, versions of the program can get the manual and upgrade for £10 (+ £1 p&p).

Scores

Ease of use	70%
Implementation	80%
Value For Money	80%
Overall	80%

Steve White explains how you can create beautiful looking typefaces

2D paint

Face paint

Once of the most often forgotten skills of any professional graphic designer is the ability to create stunning looking typeface, or fonts – not Amiga fonts but fonts that are drawn in a paint package. Drawn fonts became popular on the Amiga with the advent of the demo scene, with many demo groups adorning their productions with their name in big, bold and colourful letters.

They came in all shapes, sizes and style – metal, organic, plastic and in the most dazzling shapes. Maybe I'm going a little overboard on this font thing but a good looking logo can make or a break a concept and the same is exactly true when designing fonts on your Amiga in the comfort of your paint package. It's a good idea to build a catalogue of typefaces and there are several good commercial products on the market offering a wide variety of fonts for every occasion. However, it is cheaper and much more fun to design your own.



This picture demonstrates how important it is to choose a font style that suits your picture subject matter

If you take a look at the Aces High picture take a closer look at the actual Aces High font. If you pull the font apart you will begin to understand why I used it for that particular image. For a start it has been roughly copied from German lettering around the time of World War I – the time when the Red Baron was flying for Germany, which links the font nicely into the main picture of the tri-plane. It also evokes a serious and official mood because the subject matter can be considered serious (I class shooting a man from the skies as serious). Now, you don't have to be a Van Gogh to understand the links made above, but what this process does show you is how to pick a suitable font for the subject of the picture.



Bevelled edges help lift your font from the screen. Adding a spread fill the font can be made to look like chrome

THE FIRE FONT

Animated fonts obviously require more work than still fonts but as a result of the extra work they invariably look stunning – depending on your artistic skill and imagination.

Probably the best place to start with animated fonts is with the fire effect. This is simply a series of letters with a fire burning inside them over a series of frames. The major point here is to create the fire first as an animated brush. You can then paste the letters over each frame of the fire with the Rub Thru option set to on. As long as the original letters have been made solid the fire frames will replace the solid areas.

In case the fire doesn't actually fill the entire solid area of the letter, you should place a square horizon image below each of the fire frames and, as a result, any gaps will be filled with this horizon.

IT'S ALL SHINY

Once of the most popular demo scene fonts was the bevelled edge. The bevelled edge raises the font out and with the correct shading and colour looks like pressed metal. If you take a look at the character set picture you can see the bevel effect in action.

You can simulate this yourself by outlining each character in the logo several times to simulate the bevel and then filling the outline with a slightly different colour. To finish the bevel you could add lighting effects such as the white and black shine you see around icons on your Workbench. A neat effect is to fill a chrome pattern though the bevel outline and then fill the actual letters inside the bevel with a single solid colour. You can see this process in the picture.

The first step is to use an Amiga font to make the basic letters – in this case Bevelled. An outline is then created and the letters inside erased. This outline is then filled with a spread of colours. The spread consists of the colours white to black and then black to white again. This creates a shine or chrome effect. A black outline is then added to the chrome outline and, finally, the original letters are placed back in the holes and flooded with a single colour.



A simple font effect in only four stages. A good understanding of your paint package's tools is essential to aid design

There are many techniques you can employ to create attractive looking fonts. Another popular type of font is chrome reflection, and you will have almost certainly seen this effect at sometime. The actual letters look as if they are reflecting a desert scene – with sand, rocky mountains and a deep blue sky.

Using this style in your fonts can look very effective, but the colours have to be accurate – the more washy the colours the more realistic the reflection. Remember, you don't have to stick to the same colours – change them and you'll more than likely come up with a look you'll prefer to the original one.

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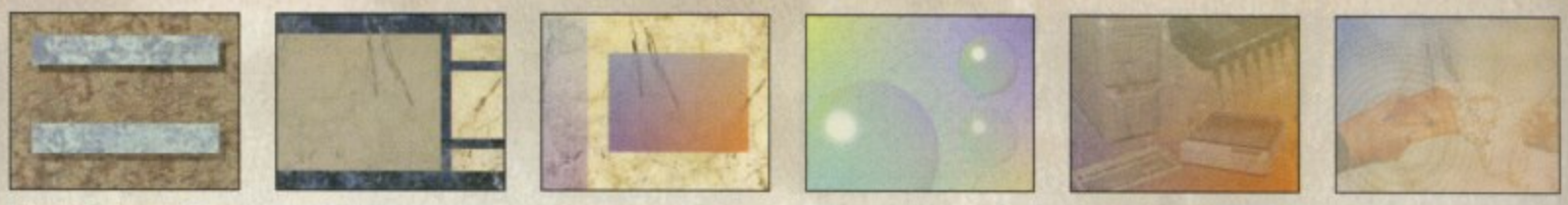
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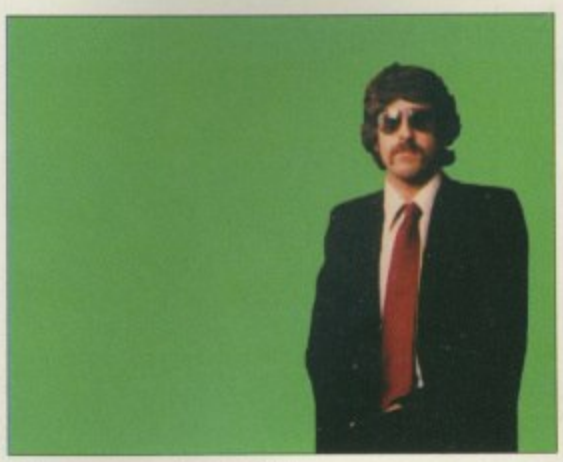
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There's more to keying than meets the eye, as Gary Whiteley explains

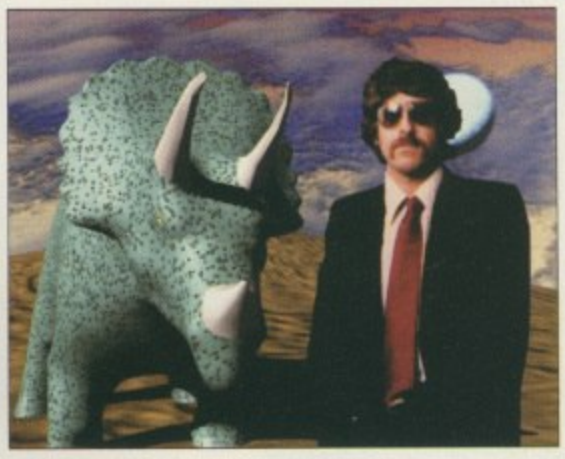
The key to keying



Put your presenter against a green backdrop....



Select your desired background....



...Chroma key the two together and you can be anywhere you like!

A genlock serves two main purposes: firstly to synchronise two (or sometimes more, in the case of true TV genlocking) video sources by GENerate LOCKing them together so that their video information runs exactly in sync, and secondly as a means of overlaying one video source (the computer) over another (background video) which is itself providing the original synchronising information for the genlock. Nothing new here, but it isn't the genlocking side I wish to talk about. Instead I'd like to concentrate on the keying side, which is how Amiga graphics are overlaid onto video, amongst other things.

There are actually several types of keying, with luminance (brightness) and chrominance (colour) being the predominant methods. These are usually referred to as Luma Key and Chroma Key and can be performed either digitally (as, for instance, in the case of an Amiga genlock), or in analogue fashion, depending upon the keying and video equipment being used. Keying can also be performed on a video signal as it leaves vision mixing equipment (downstream keying), or before the signals are mixed (upstream keying) and subsequently output or recorded.

Just as the Amiga must be synchronised to the video signal for genlocking to be successful, the video signals involved in keying must also be synchronous, otherwise it will be impossible to correctly switch between them at the required time, resulting in rolling images which inevitably key badly and look terrible. When correctly synched the electronic switching required to replace portions of one video signal with another will work correctly and the keyed mix will turn out well.

Principles

In any case, the principle behind keying is that the part of the image to be superimposed or keyed onto video (for instance Amiga text) is electronically replaced by a corresponding portion of the second video image. With genlocking it is usually the Colour 0 portion of any Amiga graphics which is replaced by the second video signal, with the genlock's electronics sensing when colour 0 is present and rapidly switching the video signal so that the 'background' video image replaces all occurrences of colour 0 in the mixed video output from the genlock. The result – text or graphics appear over video.

A similar thing happens in luma and chroma keying, with part of the 'foreground' image being switched out and the background image being allowed to 'key' through. With luma keying, the crucial aspect is the brightness of the foreground image. Imagine a picture of a keyhole painted in white on a black background. By feeding this image to a suitably-equipped vision mixer or keyer and setting the key level to work with the brightest portion of the image (white), only where there is the shape of the keyhole will the background video be seen, giving a masked view as if through a keyhole.

This is an electronic version of that movie favourite, the Matte painting, where a false scene is painted on glass, with gaps for the camera to see the live action occurring behind the glass, creating the illusion of the actors being in a fabulous set which would have been prohibitively large or expensive to build. However, with the right equipment, the matte principle can be used to govern the mixing of two different video images together, using such a matte as the key image itself. The result this time will be a special effect where both video sources appear on screen, one cut to fit inside the keyhole area, the other sitting outside it. With a good keyer the edges should be sharp and clear, provided the original matte is well-drawn, and the effect should be quite convincing.

In contrast to luma keying, which works only on predetermined brightness levels, chroma keying works by defining a specific colour to set the keying area. Chroma key is very commonly used in television today, most notably for superimposing presenters against background images (such as weather forecasters over their maps), or actors and pop groups against wild graphics and exotic locations. The most prevalent colours for chroma keying are blues and greens, since human skin contains very little of these hues and therefore will not adversely affect the quality of the keying. For superimposition purposes, chroma keying is much more useful than luma keying, since far more control can be maintained over the subject, though it requires a degree of lighting skill to produce a good clean, shadowless key in order to make a convincing composite image.

Wrong keys

So as far as keying with the Amiga is concerned, there have been several (largely unsuccessful) attempts to provide specialist hardware. This has either been integrated into special graphics cards for big-box Amigas or made available as add-ons for genlocks, most notably the RocKey unit which was designed to work with RocTec's own RocGen Plus genlock. Unfortunately, the output quality of the RocGen/RocKey combination left a lot to be desired, though the results were reasonable for the cost of the equipment.

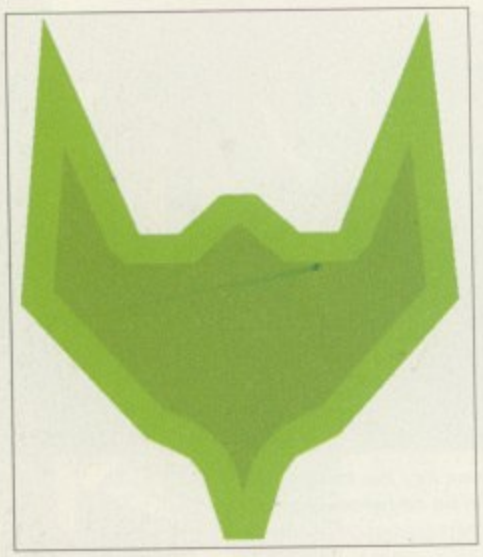
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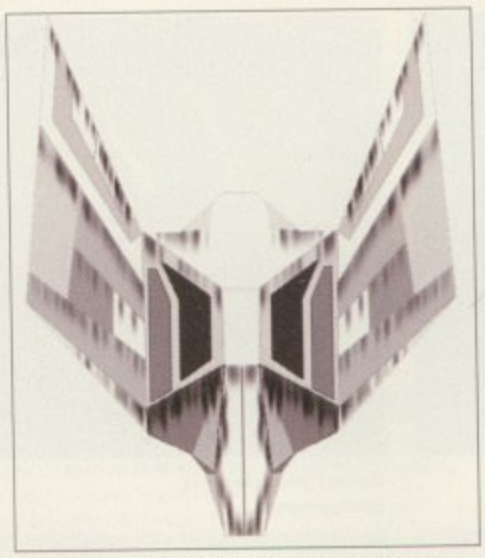
Paul Austin adds some of the finishing touches to his cosmic hot-hatch

3D graphics

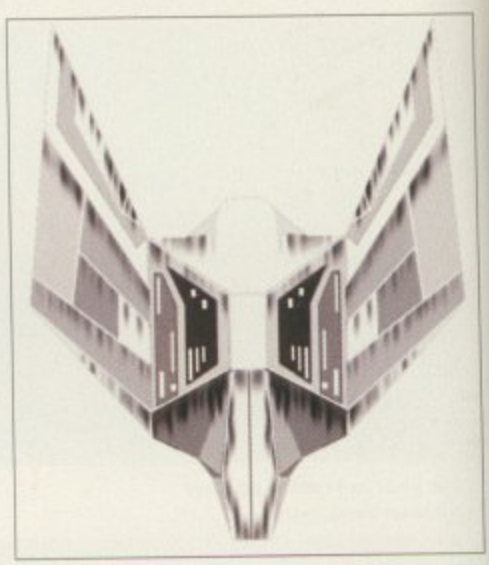
Final frontier



Just two colours in this case – it's the diffuse map that does the real work



Panelling and dirtying-down all courtesy of the diffuse texture. It's here that a good airbrush comes into its own



The specular map is pretty much identical to the difuse, but there a few highlights on leading edges and fine details

As promised in last month's column, it's time to turn our attention to the tricky business of texturing. Now, before the plagiarism complaints come poring in, I'll admit to stealing the following techniques from the master of the art, Mr Ron Thornton – head animator and founder of Babylonian Productions.

Okay, assuming the modelling stage is complete, the first step is to check your surface assignments. In other words, do all the bits of the ship that need specific textures have appropriate surface names? To do this, pop into modeller, load the ship, go into polygon mode and using the Amiga and W key combination, run through all the assigned textures. If all the appropriate segments of the ship are selected for each you're ready to rock.

Now, go back to layout and position the ship so the camera is looking directly down on the model. Next, create a key frame and open the camera requester, setting the zoom factor to somewhere around 30.0. After making the adjustment the ship will need repositioning to fit the screen properly.



The hot-hatch takes to the skies

The reason for this odd procedure is to generate a flat template image of the ship that can be used to generate the image maps required for the texturing job. Altering the zoom simply produces the flattest image possible, thereby removing any lens distortion or perspective effects that might cause errors in the image maps.

Once everything is in position, set the camera to video-res with low anti-aliasing and render a frame with flat lighting. You may need to render template images from a variety angles to create the templates for all the maps you'll need, and this may be boring, but it's time well spent.

Now you have your template you can quit LightWave and load up your favourite paint package. Needless to say, DPaint will do the job but, ideally, a true 24-bit paint package with a soft edged air brush is best.

The key to the whole process is using Layout's flexible surface mapping options to the optimum. In this case, the maps have been applied in the colour, specular and diffuse fields. Arguably the most important of these is the diffuse field and, therefore, I recommend that's the one you start with. Although you'd expect the colour field to add the majority of the detail, in fact it's diffuse that adds the key detail to any surfacing job. In our case it's used to add the panel detail, tonal differences and key control surfaces to the wings. The colour field, on the other hand, is used primarily to add the markings and colour tones to the ship, while the specular field provides the highlights, dirt and imperfections that add that essential feeling of realism.

The first step is to fill the rendered templates with a consistent colour – a light grey in this case – but don't forget to keep the original as it's very handy for keeping track of exactly where the various surfaces are on the model. Once you have your filled surface template, simply draw in the various panels and control surfaces. Next, fill in some of the newly created regions with variations of grey – this produces the all-important tonal changes in the paint job.

Using an airbrush, now add some dirt to the trailing edges on some of the panels, around the engines, and anywhere that dirt and dust would accumulate during the rigours of space travel. As a finishing touch you can also dot a few small detail shapes around the texture – this is a simple trick which adds detail with the minimum of effort.

Okay, save out, but don't close the diffuse texture. Now we're going to use it to build the specular map. This is a much quicker process. Select a very light grey or off-white colour and simply draw highlight lines on the leading and trailing edges of assorted panels and features you think might not quite fit perfectly in position, or alternatively, have a sharp metallic edge to them. It's a subtle but important addition that will bring the model to life in appropriate lighting conditions.

First coat

After you've saved the specular map, load up the filled texture template and you can begin adding the actual paint job to the craft. From here on you're on your own. The only rule is to make the paint job accentuate the lines of the ship. The only other pointer is not to be afraid of using vibrant colours – sticking to three or four basic colours is wise because most ships of this type need to be instantly recognisable.

After saving out this final map it's simply a matter of adding the textures to the appropriate surfaces and auto-sizing them to get a perfect fit.

Next month we'll add the engine flares and the all-important universe for our creation to cruise around in.

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